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National Highway Traffic Safety Administration

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# **DYNAMIC SCIENCE, INC.** In-Depth Accident Investigation

Contract Number DTNH22-94-D-27058 Case Number DSI-94-AB-020



#### **TECHNICAL SUMMARY**

**CONTRACTOR: CONTRACT NUMBER:** 

Dynamic Science, Inc. DTNH22-94-D-27058

**CASE NUMBER:** 

Case DSI-94-AB-20



The collision occurred during the early morning hours of a fall weekday 94). The weather was clear and dry. At the point of impact, the roadway is a four-leg, asplicat intersection which is straight and level, and is controlled by standard tri-colored signals.

Vehicle 1 (the case vehicle) was a 1994 Dodge Grand Caravan SE, driven by a 37 year old female. Vehicle 1 was in southbound travel lane three approaching the intersection. Vehicle 2, a 1980 Chevrolet Malibu driven by a 26 year old female, was traveling northbound approaching the same intersection and attempted to make a left turn directly in front of Vehicle 1. The driver of Vehicle 1 stated that she attempted to avoid a collision by braking and steering right, but the front of Vehicle 1 struck the right side of Vehicle 2.

The Delta V for Vehicle 1 was computed, using EDCRASH, as 13 KPH (8 MPH). The PDOF was estimated to have been 350 degrees with a CDC of 12FYEW1. The Delta V forces in this impact exceeded the manufacturer's threshold in the Supplemental Restraint System (SRS), and the driver's and passenger's side air bags in Vehicle 1 deployed.

The driver of Vehicle 1 was not wearing the available lap/shoulder restraint. She sustained a contusion to her chest from contact with the air bag and a burn to the chest area of her dress, that she claims occurred as a result of contact with gases from the air bag. She was transported to a local hospital via ambulance where she was treated and released.

The right front occupant of Vehicle 1, the driver's 4 year old daughter, had a reported height of 104.0 cm (41.0 in) and weight of 16 kg (35 lbs.). The mother stated that the child was not wearing the available lap/ shoulder restraints. When the driver of Vehicle 1 braked and steered right (see photo # 004) to avoid colliding with Vehicle 2, the brake induced deceleration caused the head and shoulders of the right front occupant to move down and forward into the instrument panel area. She possibly struck the instrument panel area somewhere around the right front side air bag module cover prior to the deployment of the air bag. This possible contact may have resulted in numerous lacerations about her face, and two avulsed teeth. The right front occupant was rebounding from the instrument panel when Vehicle 1 impacted with Vehicle 2; the air bag deployed and subsequently expanded across the child's face causing abrasions about her entire face. Due to right front occupant's forward position, she restricted the deployment of the air bag. The force of the air bag accelerated the right front occupant in a vertical direction. The left side of her head struck the front header near the windshield, and the right side sun visor. There is a 17.8 cm circular indentation

to the front header. This impact resulted in a left side open skull fracture (basilar), an AIS-4 injury, and several lacerations to the left side of her head.

The right front occupant rebounded from the vertical loading of the front header contact, and fell to rest in between both front bucket seats. She came to rest face down with her head pointing towards the front of the vehicle. The mother stated that she exited the vehicle and ran around the front of the van to open the right front door, and get the right front passenger out. The door was locked, and the mother had to run back to the left side to get the right front occupant out.

The investigator believes that the mother first reached down and placed the right front occupant on top of the right front seat before running around the van. The right front occupant bled profusely on the seat.

The right front occupant was pronounced dead on arrival at the hospital. There was only an emergency room examination of the right front occupant for the related injuries, no autopsy was performed. Vehicle 1 was inspected on 1994 approximately  $2\frac{1}{2}$  months after the collision. The vehicle had been placed in an outside storage area, uncovered and exposed to the weather conditions. In addition, there were multiple inspections of Vehicle 1 prior to Dynamic Science's inspection. Therefore, visible contact points could not be located at the time of inspection and the occupant kinematics could not be definitely determined by the interior inspection of Vehicle 1.

The police lieutenant that was at the scene of the accident, returned a day later to inspect Vehicle 1 to see if he could find the cause of the right front occupant's fatal injury. He noted a circular indentation to the front header, but this information was not noted on the police report or reported to Dynamic Science by the police. He mentioned his findings to the family, and three weeks later a relative took photographs of the front header area. These photographs were not made available to Dynamic Science by the family's relative. Several months later, the family's attorney provided them to NTSB who provided the copies that are included in this report. The circular contact point was visible in the photographs, and determined to be the cause of the skull fracture (basilar).

The driver feels that the air bag struck the right front occupant, causing her to override the air bag and strike the windshield. She feels that the air bag striking the right front occupant is what caused her skull fracture. She was further told by the police that if the right front occupant had been belted, she would still have been struck very hard by the air bag and seriously injured.

The driver of Vehicle 1 feels that air bags are unsafe and can cause serious injuries. She wants warning labels attached to air bag equipped vehicles warning occupants of such dangers.

The rear seated ten year old female occupant of Vehicle 1 was not wearing the available lap/shoulder restraints. According to the PAR, she sustained bruises and abrasions to her leg(s). The driver and the Emergency Room Medical Report indicated she was not injured.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

## DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-94-AB-020

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## Case DSI-AB-94-020

ACCIDENT DATA:			
Location:	<b>Otto</b> Utah		
Area/Type:	Urban		
Date/Time:	Fall / Weekday / Early morning		
Accident Type:	Van/Car Angle-Intersection		
INJURY SEVERITY:			
Vehicle 1:	Driver, AIS-1		
	R/F Occupant, AIS-4		
	L/R Occupant, AIS-1 (3rd seat)		
AMBIENCE:			
Viewing Conditions:	Early morning, no viewing restrictions		
Cloud Cover:	Clear		
Precipitation:	None		
Temperature:	Unknown		
Road Surface:	Dry		

Level

#### ROADWAY:

VEHICLE 1	<b>VEHICLE 2</b>	
9-lane, undivided,	9-lane, undivided.	

Type: 5-lane southbound 4-lane northbound

Width: Approximately 28.0 m Approximately 28.0 m

(92.0 ft) (92.0 ft)

**Traffic Density:** Very heavy Very heavy

Median: None None

Edge: East edge raised West edge raised concrete

concrete curb curb

Surface: Asphalt, good condition Asphalt, good condition

**Reported Defects:** None None

**Co-efficient of Friction** .75 .75

(est.): **Vertical Alignment:** Level

**Horizontal Alignment:** Straight Straight

#### TRAFFIC CONTROLS:

**VEHICLE 1** 

**VEHICLE 2** 

Signals:

Overhead standard tri-colored signals

Overhead standard tri-colored signals

Signs:

None

None

**Speed Limit:** 

64 KPH (40 MPH)

64 KPH (40 MPH)

Markings:

Solid double yellow lines separate north and southbound opposing traffic lanes. Solid white, and broken white lines separate southbound traffic lanes. Solid double yellow lines separate north and southbound opposing traffic lanes. Solid white, and broken white lines separate northbound traffic lanes.

## **VEHICLES:**

**Tow Status:** 

VEHICEES	VEHICLE 1	VEHICLE 2
Description:	1994 Dodge Caravan (SE)	1980 Chevrolet Malibu, 2 dr. Coupe
Odometer:	8,839 km (5,493 mi)	Unknown - not inspected
Engine:	3.0 L / V6	3.8 L / V6 2 BBL, per V.I.N.
Vehicle Modifications:	None	Unknown - not inspected
Tire Condition:	Excellent tread, no unusual tread pattern	Unknown - not inspected
Manual Restraints:	3-point lap/shoulder restraints at L/F, R/F, L/R, and R/R seating positions (3rd seat). 2-point lap restraint at C/R seating position (3rd seat). The 2nd seat was removed from the van prior to the collision.	3-point lap/shoulder restraints at L/F, and R/F seating positions. Unknown if any other type of restraints
Automatic Restraints:	Supplemental Restraint System, driver's and right front passenger's side air bags	None
Reported Defects:	None	None
Cargo:	Assorted school supplies, no substantial weight	Unknown - not inspected
Windshield Damage:	None. There are smudges on the right side of the windshield and an unknown object stuck to the windshield.	None
Fleet:	None	None

Towed due to damage Towed due to damage

#### **VEHICLE DAMAGE:**

VEHICLE 1 VEHICLE 2

Object Struck: Vehicle 2 Vehicle 1

Event Number: 01

CDC: 12FYEW1 02RFEW2

(photographs)

Maximum Crush: 18.7 cm (7.3 in) @ Extent zone 2 at

C<sub>4</sub> (approx. center right front quarter bumper) panel, distributed

**VEHICLE VELOCITY ESTIMATES:** 

Total Delta V:

13 KPH (8 MPH)

16 KPH (10 MPH)

Longitudinal Delta V:

-13 KPH (-8 MPH)

-8 KPH (-5 MPH)

Lateral Delta V:

2 KPH (1 MPH)

-14 KPH (-8 MPH)

Energy Dissipation:

20,895.00 NT-M

12,123.86 NT-M

Energy Dissipation: 20,895.00 NT-M 12,123.86 NT-M (15,409.3 FT-LB) (8940.9 FT-LB)

Calculations based upon: The Delta V (velocity changes) were computed by

the damage only algorithm of the EDCRASH program. A copy of the output is included. Also a

CRASH III PC program was conducted for

comparison and a copy of the results is included in

the Appendix "A"

#### **COLLISION SEQUENCE:**

#### Pre-Crash:

This two vehicle collision occurred during the early morning hours of a fall weekday at the intersection of a north/south urban trafficway. The weather was clear, there were no weather related viewing restrictions and the road surface was dry and free of defects. The traffic density was heavy and the posted speed limit was 64 KPH (40 MPH). The intersection is controlled by overhead standard tri-colored signals.

The trafficway measures approximately 28.0 m (92.0 ft) in width and consists of four northbound travel lanes separated by double yellow painted lines from five southbound travel lanes. The north and south travel lanes are internally separated by solid and broken white painted lines. The north and south travel lanes are straight and level. The roadway has an estimated coefficient of friction of .75.

Vehicle 1 (the case vehicle) was a 1994 Dodge Grand Caravan SE, driven by a 37 year old female. The vehicle was traveling in the southbound travel lane three approaching the intersection. The driver was not wearing the available lap/shoulder restraint. Occupant 2, a 4 year old female, was seated in the right front seat. She was not wearing the available lap/shoulder restraint. According to the driver of Vehicle 1, prior to the crash, occupant 2 was seated and attempting to fasten her lap/shoulder restraint. Occupant 3, a 10 year old female, was seated in the left rear seating position (3rd seat). She was not wearing the available lap/shoulder restraint.

Vehicle 2, a 1980 Chevrolet Malibu, driven by a 26 year old female, was traveling northbound approaching the same intersection in the left turn lane. The driver of Vehicle 2, according to the PAR, was wearing the available lap/shoulder restraint.

The driver of Vehicle 2, attempted a left turn directly in front of Vehicle 1. The driver of Vehicle 1 was braking and steering to the right in an attempt to avoid the collision with Vehicle 2.

#### Crash:

The front bumper of Vehicle 1 struck the right front quarter panel of Vehicle 2. The Delta V for Vehicle 1 was computed, using EDCRASH, as 13 KPH (8 MPH) using a CDC of 12FYEW1 and a PDOF of 350 degrees. The combined direct and induced damage width was 151.3 cm (59.6 in), and the maximum crush depth was 18.7 cm (7.3 in). The Delta V forces in this impact exceeded the manufacturer's threshold in the Supplemental Restraint System (SRS), and the driver's and passenger's side air bags in Vehicle 1 deployed.

Vehicle 2 was not inspected, but police photographs were available and a CDC of 02RFEW2 was assigned using a PDOF of 60 degrees. The combined direct and induced damage width was approximately 144.7 cm (57.0 in), and the maximum crush depth was classified as a zone 2 for the purpose of a CDC.

#### **Post Crash:**

Vehicle 1 went into a clockwise rotation of approximately 30 degrees and continued in a south-westerly direction. It mounted the southwest curb of the intersection, no residual damage was noted to the tire rims. Vehicle 1 came to final rest heading southwest on the sidewalk, and the grassy area of the southwest corner of the intersection.

Vehicle 2 went into a counterclockwise rotation and came to final rest heading in a south-westerly direction. Vehicle 2 then fled the scene of the crash heading west. The right front tire was restricted and did not allow Vehicle 2 to go very far.

#### **Occupant Kinematics:**

Occupant 1, the 37 year old driver of Vehicle 1, was seated unrestrained in a bucket seat in an upright seated position with her hands at the 10 and 2 o'clock positions. Her feet were on the floorboard with her right foot on the brake pedal. The driver was 160 cm (68 in) in height and weighed 54 kg (118 lb). The left front seat was adjusted to a position at, or near a center adjustment position prior to the crash.

At impact, the unrestrained driver moved forward, with the driver's side air bag simultaneously deploying. During the above event, the driver's chest area made contact with the deploying air bag and she sustained a contusion to her chest area. Her dress was also "burned" by the gases of the air bag (see photos #112, 113, 114).

Occupant 2, the 4 year old right front occupant of Vehicle 1, was seated unrestrained in a bucket seat. At the vehicle inspection the right front seat was adjusted at or near the farthest back position. According to the driver, the right front occupant was wearing a backpack and a heavy coat. The driver also stated she was attempting to fasten the lap/shoulder restraint at the time of the collision. When the driver of Vehicle 1 braked and steered right to avoid colliding with Vehicle 2, the brake induced deceleration caused the head and shoulders of the right front occupant to move down and forward into the instrument panel area. She possibly struck the instrument panel area somewhere around the right front side air bag module cover prior to the deployment of the air bag. This probably resulted in lacerations to her mouth, lower lip and nostrils, and two avulsed teeth. The right front occupant was rebounding from the instrument panel when Vehicle 1 impacted with Vehicle 2; the air bag deployed and subsequently expanded across the child's face causing an abrasion across her neck that was 5.0 cm in length slightly above her Adam's apple, and angled slightly upwards at each edge

as it extended across the neck horizontally. There were also superficial abrasions over her forehead, nose, cheeks, and chin caused by the air bag. Due to right front occupant's forward position, she restricted the deployment of the air bag. The force of the air bag accelerated the right front occupant in a vertical direction. The left side of her head struck the front header near the windshield, and the right side sun visor. There is a 17.8 cm circular indentation to the front header. This impact resulted in a left side open skull fracture (basilar), an AIS-4 injury, and several lacerations to the left side of her head.

The right front occupant rebounded from the vertical loading of the front header contact, and fell to rest in between both front bucket seats. She came to rest face down with her head pointing towards the front of the vehicle. The mother stated that she exited the vehicle and ran around the front of the van to open the right front door, and get the right front passenger out. The door was locked, and the mother had to run back to the left side to get the right front occupant out.

The investigator believes that the mother first reached down and placed the right front occupant on top of the right front seat before running around the van. The right front occupant bled profusely on the seat. The mother then lifted her out of the van through the left front door and laid her on the grass. Witnesses to the accident stopped to render assistance and attempted CPR, and noted that as air was blown into the mouth, that blood would gurgle out of the ears.

The right front occupant was pronounced dead on arrival at the hospital. There was only an emergency room examination of the right front occupant for the related injuries (see page 13), no autopsy was performed.

Occupant 3, the 10 year old left rear occupant of Vehicle 1, was seated unrestrained in an upright position on a bench seat (3rd seat). At impact with Vehicle 2, the unrestrained left rear occupant was moved forward. According to the driver of Vehicle 1, and the reports, the left rear occupant was not injured. The PAR however, indicates possible injuries consisting of abrasions and contusions to her leg(s). The injuries may have occurred as a result of her striking the carpeted floor.

#### **Supplemental Restraint System:**

This 1994 Dodge Grand Caravan (SE) was equipped with driver's and right side passenger's air bags that deployed as a result of an angle type collision with a 1980 Chevrolet Malibu, 2-door.

The driver's air bag was not damaged during the collision sequence and did not yield evidence of occupant contact. However, the right side occupant's air bag had a 0.3 cm (0.12 in) tear,

located on the left half of the air bag, whose source could not be identified. There were also blood stains on both of the air bags in the lower left corners that were most likely the result of post-crash bleeding by occupant 2, the right front occupant. This probably occurred when the driver of Vehicle 1 pulled the R/F occupant out the left front door and laid her on the ground.

The driver's side un-tethered air bag was contained within the lower portion of the four spoke steering wheel and was mounted flush to the wheel rim. The module cover opened at the designated tear points in a typical H-configuration. The upper module cover measured 18.0 cm (7.1 in) horizontally x 5.8 cm (2.3 in) vertically. The lower module cover flap was 18.0 cm (7.1 in) horizontally x 6.3 cm (2.5 in) vertically. The cover flaps were molded of a vinyl type material. It measured 52.0 cm (20.3 in) in diameter in its deflated, post-crash state. The air bag was vented by two ports located at the 10 and 2 O'clock positions on the back side of the bag (away from the driver). The vent ports measured approximately 3.0 cm (1.3 in).

The right front passenger side air bag module assembly was located in the right upper instrument panel. The cover flap measured 33.0 cm (12.8 in) horizontally x 14.0 cm (5.5 in) vertically. The cover flap opened at the designated lower parting seam and was hinged at the upper horizontal surface, parallel to the base of the windshield, thus allowing the flap to open in an upward direction. The cover flap was molded of a vinyl type material.

#### Scene Clearance:

Vehicle 1 sustained moderate-disabling damage. Due to the traumatic injuries to the child occupant, and the transport of the driver and both child occupants, the vehicle was towed from the scene.

Vehicle 2 sustained moderate damage, and its right front suspension was damaged. The driver of the vehicle fled the scene but was apprehended at a later time. The vehicle was towed from the place where the police found it.

#### **Safety Standards:**

There were no violations of Federal Motor Vehicle Safety Standards noted during the on-site inspection of Vehicle 1.

#### **DRIVER AND OTHER OCCUPANTS:**

#### **VEHICLE 1**

Restraint Usage:

DRIVER OCCUPANT 2

Age/Sex: 37 year old/female 4 year old/female

Seated Position: Left front Right front

Seat Type: Bucket Bucket

**Height:** 160.0 cm (63.0 in) 104.0 cm (41.0 in)

Weight: 54 kg (118 lb) 16 kg (35 lb)

Occupation: Teacher Minor child

Pre-existing Medical Unknown Unknown

Condition:

Alcohol/Drug Involvement: None/None N/A

**Driving Experience:** 21 N/A

Body Posture: Normal upright Upright per the driver (wearing

back pack)

Hand Position: 10 & 2 O'clock positions The driver stated that the

occupant was trying to fasten the lap/shoulder restraint.

None

Foot Position: On floorboard with the right On the seat

foot on the brake pedal

None

Additional Occupants: 2

## **DRIVER AND OTHER OCCUPANTS (con't):**

## **VEHICLE 1**

**OCCUPANT 3** 

Age/Sex: 10 year old/female

Seated Position: Left rear

Seat Type: Bench with folding back

**Height:** 147.0 cm (58.0 in)

**Weight:** 27 kg (60 lb)

Occupation: Student

Pre-existing Medical Unknown

Condition:

(

**Body Posture:** Seated on bench seat

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: None

Additional Occupants: None

## Case DSI-AB-94-020

## **INJURIES:**

## Vehicle 1

	INJURY	AIS/OIC CODE	ICD-9	SOURCE
DRIVER: (case occupant)	Contusion to chest area	490402.1,4	922.1	Air bag
R/F OCCUPANT: (case occupant)	Depressed & open skull fracture, left side of head (Basilar skull fracture)	150206.4,8	801.5	Front roof header
	Two avulsed teeth	251406.1,8	873.63	Instrument panel
	Superficial abrasion over forehead, nose, cheeks, chin	290202.1,0	910.0	Air bag
	Lacerations to mouth	243204.1,8	873.61	Instrument panel
	Lacerations scattered over scalp (top frontal)	190600.1,5	873.0	Instrument panel
,	Lacerations on nose, nostrils	290602.1,4	873.20	Instrument panel
	Laceration below lower lip	290600.1,8	873.44	Instrument panel
	Contusion across upper neck (above the level of the Adam's apple)	390402.1,6	920	Air bag
	Laceration, left side of head (temple area)	190602.1,2	873.0	Front roof header
	Laceration, posterior of left ear (just above the area of the mastoid process)	190600.1,2	873.0	Front roof header
R/R OCCUPANT:	Contusions to leg	890202.1,9	924.10	Floor
	Abrasions to leg	890402.1,9	916.0	Floor

## According to Emergency Room medical records the right front occupant sustained fatal injuries consisting of:

"..lacerations scattered over the scalp with the impression of depressed and open skull fracture. There is blood coming from both ear canals. The face has smooth superficial abrasions over the exposed forehead, nose, cheeks, and chin, suggesting very rapid contact with a smooth surface, such as the air bag. Nose has some lacerations immediately on the nostrils. Two front teeth are avulsed, there are oral lacerations and a laceration just below the lower lip. There is a band or ecchymosis and marking across the upper neck, suggesting rapid contact with a linear object."

### The doctor's detailed information on the right front occupant injuries.

There were no x-rays or photographic documentation of the right front occupant's injuries. The treating emergency room physician diagramed injury locations from memory (see Appendix "D").

#### Abbreviations Used In Narrative, Scene And Photographic Documentation

ft. Feet in. **Inches AIS** Abbreviated Injury Scale **BLF** Begin Left Front **BLR** Begin Left Rear **BRF Begin Right Front** BRR Begin Right Rear **CBE** Cab Behind Engine **CCW** Counterclockwise CDC Collision Deformation Classification CG Center of Gravity CM Centimeter COE Cab Over Engine CW Clockwise E, EB East, Eastbound **ELF** End Left Front ELR End Left Rear **ERF End Right Front** ERR **End Right Rear FRP** Final Rest Position Interstate Highway Ι ΙP **Intermediate Point** KG Kilogram **KPH** Kilometers Per Hour LF Left Front LR Left Rear M Meter N, NB North, Northbound NE Northeast NW Northwest **PDOF** Principal Direction of Force POI Point of Impact R Radius of Curvature RF Right Front RLReference Line RP Reference Point RR Right Rear S, SB South, Southbound SE Southeast SW Southwest T Time or Elapsed Time (in seconds) U.S. United States Highway V1 Vehicle Number 1

West, Westbound

W, WB



## Photograph #21 (Police Photograph)

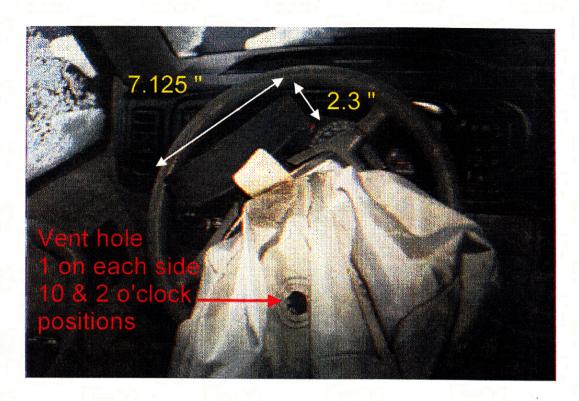
There are smudge marks on the windshield from the powder residue of the airbag.

The yellow arrow is pointing to a linear smudge from the stitching of the airbag. An exemplar vehicle was inspected, and the stitching was present on the back left side and it lined up in a similar manner as it appears in the photo.

The purple parentheses is outlining smudge marks that are commonly referred to as powder residue.

The red arrow is pointing to an unknown object that is embedded on the windshield. It probably came from the "backing" paper that some air bags are "wrapped" in. An exemplar vehicle was inspected, and this "backing" paper was present. It was torn and present behind the air bag module.

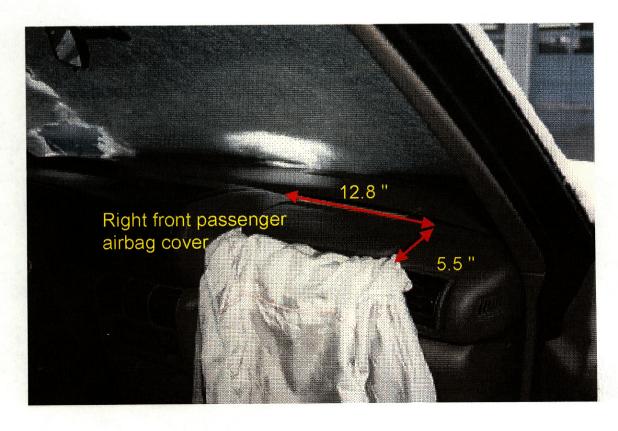
Neither the smudge marks or the object were visible when Vehicle 1 was inspected.

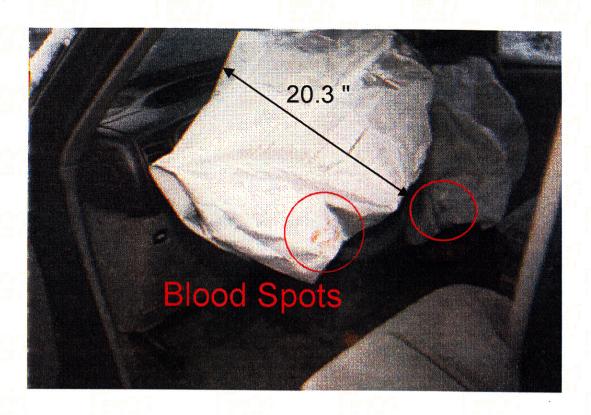




Upper and Lower airbag covers



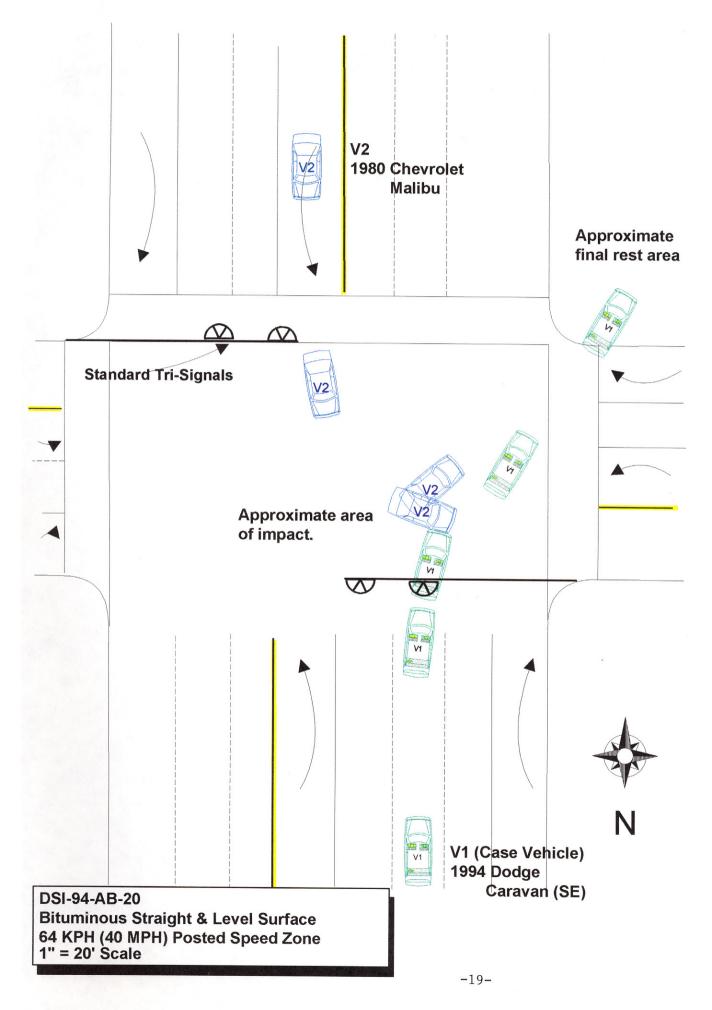




The right front occupant was the source of the bleeding



Driver and right front occupant airbags

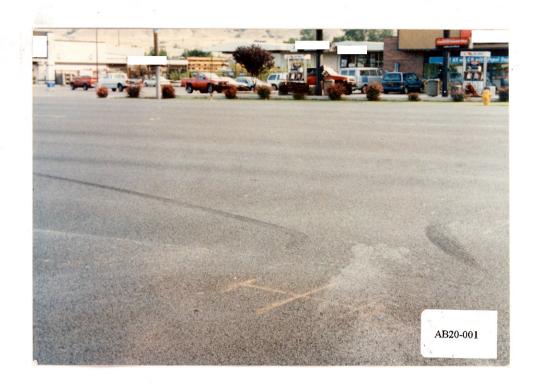


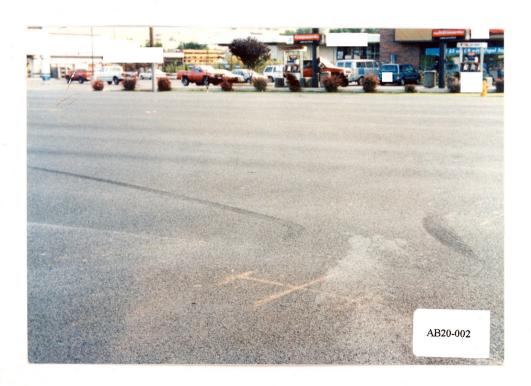
## **PHOTO INDEX**

## Case Number DSI-AB-94-020

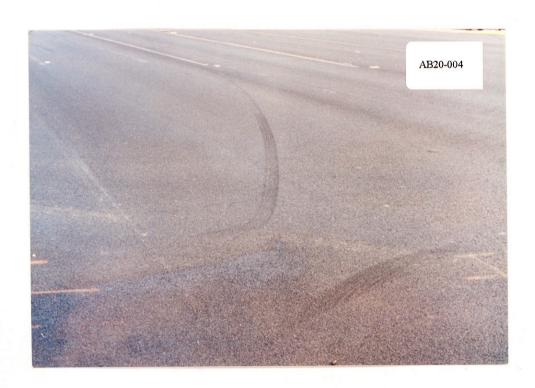
PHOTO NO.	VEHICLE NO.	ORIENTATION	SUBJECT MATTER
			***The following photographs were taken by police at the scene of the collision.
01-04	01 & 02	North-East	LF-skidmark of V1 braking post impact an at impact. RF-skidmark of V2 at impact.
05	01 & 02	North-East	Debris and fluid spill of both vehicles leading away from impact area towards final rest area.
06-07	01	East	Final rest.
08-13	01		Exterior damage to Vehicle 1.
14-19	01		Interior of Vehicle 1.
20-21	01		Right side of windshield, smudge marks made by air bag powder residue. There is also something on windshield, it is not known if this was something placed to highlight smudge marks, origin is unknown.
22-23	01		Right front occupant seat.
24	01		Area in between both front seats, and area where right front occupant came to rest after impact.
25-26	01		Area behind front seats.
27	01		Rear seat.
28-34	02		Exterior damage to vehicle.
			**The following photographs were taken by investigator.
35-37	01	South	Direction of travel towards impact.
38	01	South-West	Impact area.
39-41	01	South-West	Post impact direction of travel towards final rest area.
42	01	South-West	Final rest area.
43	01	North	Opposite direction of travel from impact area.
44-46	02	North	Direction of travel towards impact.

47-48	02	North-West	Impact area.
49-64	01		Exterior vehicle damage without crush stands.
65-68	01		Vehicle's bumper was off bumper brackets. Crush stands and measuring sticks were first set at along the leading edge of the bumper brackets at C1-C5.
69-72	01		Bumper was placed on brackets and crush stands and sticks were then set at bumper and crush was then measured.
73-79	01		Left front driver's area including the air bag.
80-86	01		Right front side area including the air bag. Note the holes to the air bag. It is unknown what caused them.
87-91	01		Right front windshield, sun visor, and roof area.
92-98	01		Left front windshield, and damaged sun visor area.
99	01		Center front console, dashboard.
100-101	01		Center area between both front seats.
102-104	01		Right front seat.
105-108	01		Right front seat, cracked molding to the left side of seat.
109	01	·	Middle area. Note that middle seat was removed and not in place at time of collision.
110-111	01		Rear seat.
112-114	01		Dress that driver at time of collision was wearing. Note the burn area that was caused by gases of air bag.
			**The following photographs were taken by a relative, and provided to the investigator by an NTSB investigator.
115-116	01		Windshield header, and roof head liner.
117-122	01		Circular indentation to roof head liner, and sun visor.
123-124	01		Object embedded in windshield, smudge marks of air bag powder residue, and air bag stitching.
125	01		Driver's side sun visor.















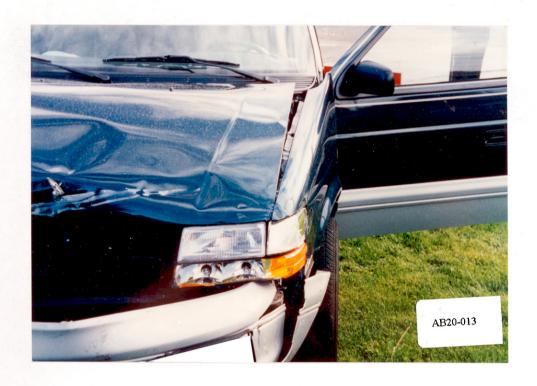






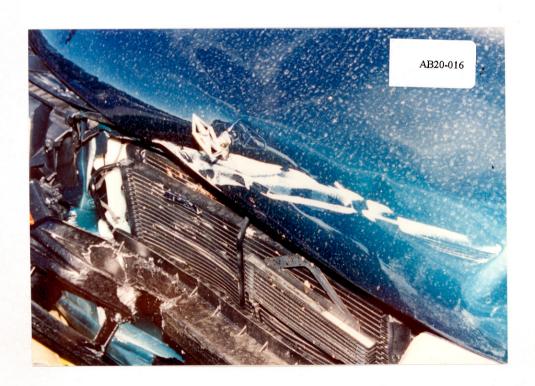


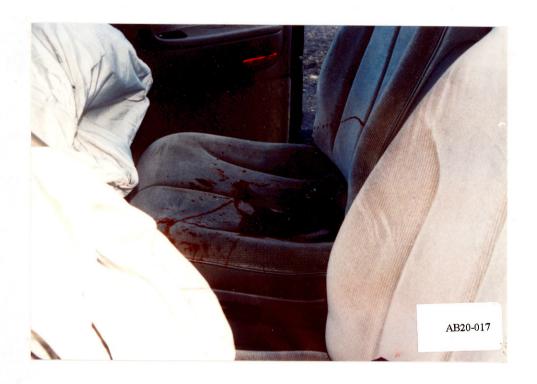


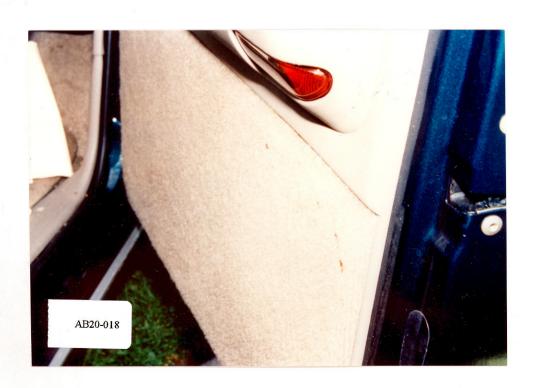










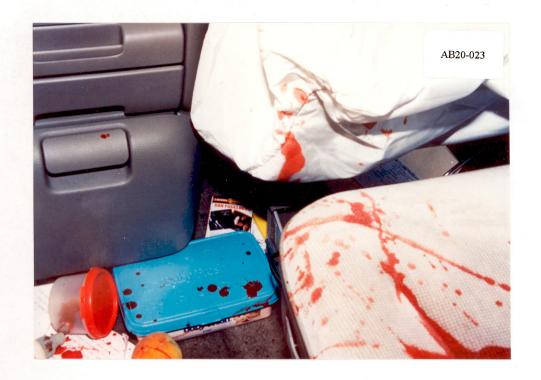




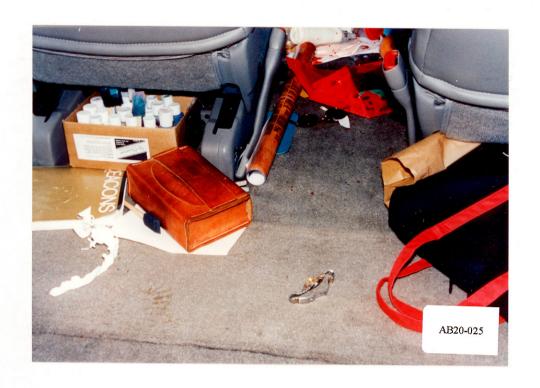


















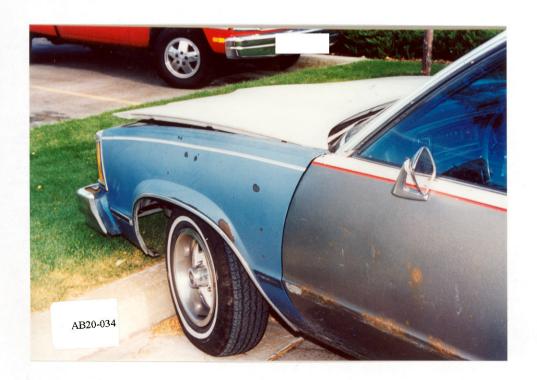












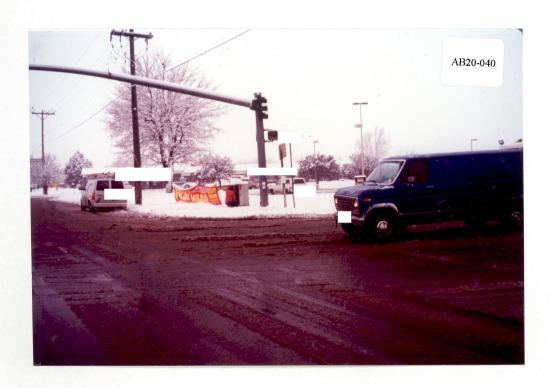




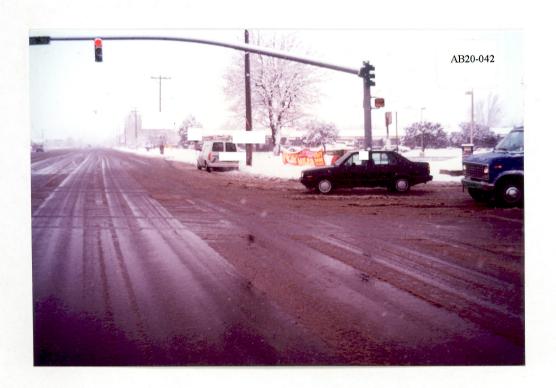






































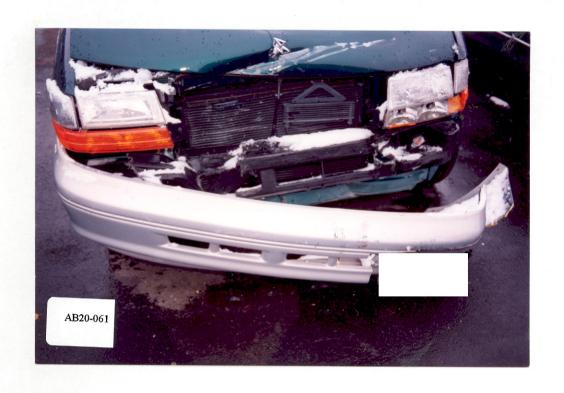
















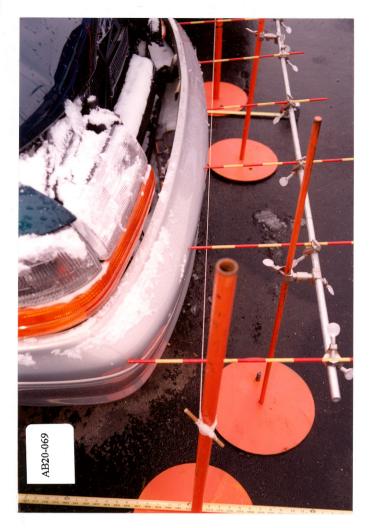










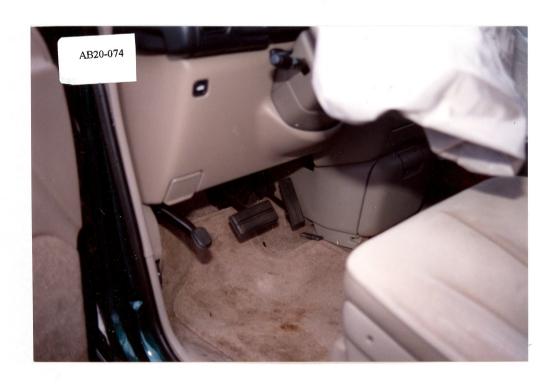






























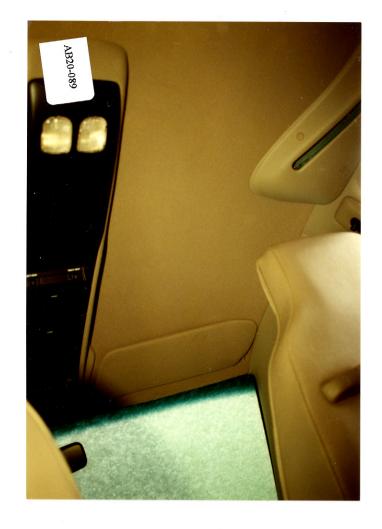
















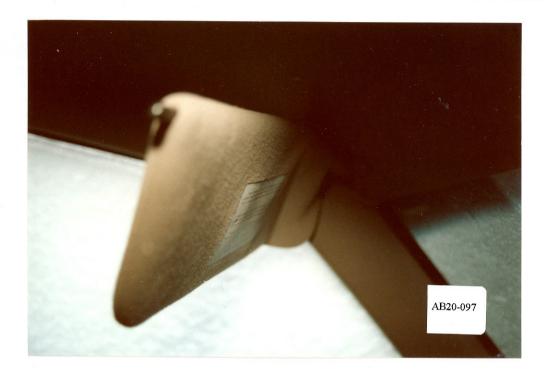










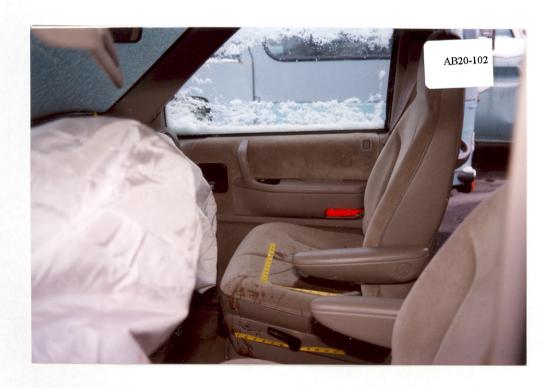














































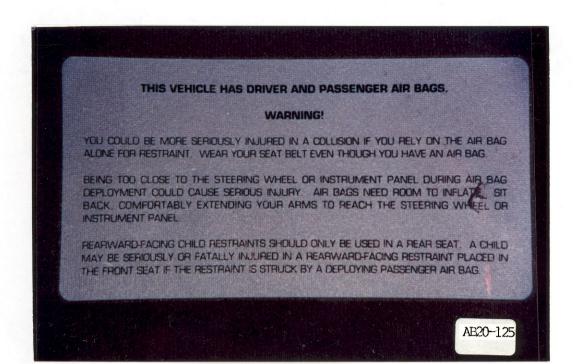












## **SLIDE INDEX**

## Case Number DSI-94-AB-020

SLIDE NO.	VEHICLE NO.	ORIENTATION	SUBJECT MATTER
01-03	01	South	Direction of travel towards impact.
04	01	South-West	Impact area.
05-07	01	South-West	Post impact direction of travel towards final rest area.
08	01	South-West	Final rest area.
09	01	North	Opposite direction of travel from impact area.
10-12	02	North	Direction of travel towards impact.
13-14	02	North-West	Impact area.
15-31	01		Exterior vehicle damage without crush stands.
32-35	01		Vehicle's bumper was off bumper brackets. Crush stands and measuring sticks were first set at along the leading edge of the bumper brackets at C1-C5.
36-39	01		Bumper was placed on brackets and crush stands and sticks were then set at bumper and crush was then measured.
40-46	01		Left front driver's area including the air bag.
47-52	01	·	Right front side area including the air bag. Note the holes to the air bag. It is unknown what caused them.
53-56	01		Right front windshield, sun visor, and roof area.
57-61	01		Left front windshield, and damaged sun visor area.
62	01		Center front console, dashboard.
63-64	01		Center area between both front seats.
65-67	01		Right front seat.
68-70	01		Right front seat, cracked molding to the left side of seat.
71	01		Middle area. Note that middle seat was removed and not in place at time of collision.
72-73	01		Rear seat.
74-76	01		Dress that driver at time of collision was wearing. Note the burn area that was caused by gases of air bag.































420 #1





















#25















t Availabl



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ilable



DS 9420 #36 Best Available







vailab







































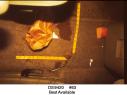




DS 9420 #60 Best Available



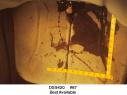


















DS 9420 #70 Best Available









20 #74





20 8/6

## **ACCIDENT FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 2. Case Number Stratum DST-94-AB-20

## **IDENTIFICATION**

3. Number of General Vehicle Forms Submitted

A FALL WELKDAY

4. Date of Accident (Month, Day, Year)

EARLY MORNING HOURS

5. Time of Accident

Code reported military time of accident.

NOTE: Midnight = 2400 Unknown = 9999

## SPECIAL STUDIES - INDICATORS

Check ( ) each special study (SS14-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. \_\_\_SS15 Administrative Use

4

7. \_\_\_SS16 Pedestrian Crash Data Study

\$

8. \_\_\_SS17 Impact Fires

ф.

9. \_\_\_SS18 \_\_\_\_

 $\phi$ 

10. \_\_\_SS19 \_\_\_\_

## 6

## NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

41

Code the number of events which occurred in this accident.

## ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

		g					
Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage	
12. 0 1	13. 4	14. 1 3	15. <u>F</u>	16. <u>42</u>	17. <u><math>\phi</math> 3</u>	18. <u>R</u>	
19. 0 2	20	21	22	23	24	25	
26. <u>0</u> <u>3</u>	27	28	29	30	31	32	
33. 0 4	34	35	36	37	38	39	
40. 0 5	41	42	43	44	45	46	
15.0054							

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

## CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

## **CODES FOR GENERAL AREA** OF DAMAGE (GAD)

#### CDS APPLICABLE AND OTHER VEHICLES

- (0) Not a motor vehicle (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U)**-**Undercarriage
- (9) Unknown

#### TDC APPLICABLE **VEHICLES**

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

## CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle Number

#### **Noncollision**

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

### Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

#### Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but  $\leq$  30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

### Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (79) Object fell from vehicle in-transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

## CODES FOR BODY TYPE

## CDS APPLICABLE VEHICLES

#### Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

### Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after), Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

## Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

#### Light Conventional Trucks (Pickup style cab, $\leq$ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500.)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

## Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

#### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

### Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- Single unit straight truck (8,850 kgs < GVWR  $\leq$ 12,000 kgs)
- Single unit straight truck (> 12,000 kgs GVWR)
- Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67)Truck-tractor with no cargo trailer
- Truck-tractor pulling one trailer (68)
- (69)Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer) (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

#### Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- Three-wheel motorcycle or moped (82)
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

#### Other Vehicles

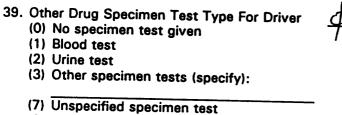
- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

Nat	tional Accident Sampling System-Crashworthiness Date	System:	General Vehicle Form	Page
16	OCCUPANT RELATED  3. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown  4. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown  5. Number of Occupant Forms Submitted (99) Unknown  6. Number of Occupant Forms Submitted (99) Unknown  7. Vehicle Weight (99) Unknown  8. Vehicle Curb Weight (99) Unknown  9. Vehicle Curb Weight (90) Unknown  10. Kilograms (045) Less than 450 kilograms	24. Rollo (0)   Rollo (1)   (2)   (3)   (4)   (5)   F		<b>)</b> :
	(610) 6,100 kilograms or more (999) Unknown	Over (1) 1 (2) 2 (3) 0 	No override/underride, or not an end-to-end impact  rride (see specific CDC)  St CDC  Ind CDC  Other not automated CDC (specify):  erride (see specific CDC)  st CDC  Ind CDC  Other not automated CDC (specify):  dedium/heavy truck or bus override  Inknown	7
23.	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes  Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with	Valud 27. Headi	es: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown ing Angle For This Vehicle	4 9
	(9) Unknown			

korż	ation	ACCIDENT TYPES (Includ	es Intenti		
<b>.</b>	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVO	DID COLLISION H VEH., PED., ANIM.	04 SPECIFICS OTHER	06 SPECIFICS
I. Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVO	08 ([])	09 SPECIFICS OTHER	10 SPECIFICS
	C Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ ANIMAL	END	15 SPECIFICS OTHER	16 SPECIFICS
Trafficway Direction	I) Kear-End	20 21 24 26 28  STOPPED SLOWER 21, 22, 23 26, 24, 27 DECL 21, 22, 23 25, 24, 27 28, 28	30 	(EACH • 32)	IEACH • 33
II Sane Traf Same Dire	E Forward Impact	34 35 36 37 38  CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH.	39 40	71	42) (EACH • 43
	Sideswipe Angle	44 45 45 47	(EACH • 48) SPECIFICS OTHER	(EACH	UNKNOWN  1 • 49) CS UNKNOWN
III Same Trafficway Opposite Direction	G Head-On	50 51 (EACH • 52)  SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOWN		
	H Forward Impact	54 55 56 57 57  CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH.	- 59	DI ON SPECIFICS	
	I. Sideswipe' Angle	64 (EACH • 66)  SPECIFICS OTHER	(EACH • 67)  SPECIFICS UNKNOWN	OTHER	UNKNOWN
Trafficway Turning	J. Turn Across Path	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS	シ.	(EACH • 74	SPECIFICS
IV. Change Vehicle	K. Turn Into Path	76 78 81	83 82	OTHER	UNKNOWN
ing Paths 1 (Vehicle Damage)	L. Straight	87	POSITE DIRECTIONS	SPECIFICS OTHER	SPECIFICS UNKNOWN
> ·		92 93	SPECIFICS OTHER	(EACH + 91 SPECIFICS U	-
VI. Miscel- lancous	M. Backing Eic.	OTHER VEH. OR OBJECT VEH.	98 Other Accident 99 Unknown Accid 00 No Impact	Type dent Type	

29. Basis for Total Delta V (highest)	Highest
Delta V Calculated	32. Lateral Component of Delta V $\phi$ 2
<ul><li>(1) CRASH program—damage only routine</li><li>(2) CRASH program—damage and trajectory routine</li></ul>	2.25 Nearest kph (highest)
(3) Missing vehicle algorithm	Nearest kph (secondary)
<ul> <li>Delta V Not Calculated</li> <li>(4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.</li> <li>(5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.</li> <li>(6) All vehicle and collision conditions are within</li> </ul>	(NOTE:000 means greater than0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown  33. Energy Absorption  20,995.000 Nearest 100 joules (highest)  Nearest 100 joules (secondary)
scope of one of the acceptable reconstruction programs, but there is insufficient data available.	(NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown
COMPUTER GENERATED DELTA V  Highest  30. Total Delta V  13.75 Nearest kph (highest)  Nearest kph (secondary)	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
(NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
Delta V  13 03 Nearest kph (highest)  Nearest kph (secondary)  (NOTE:000 means greater than  -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (999) Unknown	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR THE SECOND IF YES: IS A COMPLETED OLDMISS PROGRA	

National Accident Sampling System-Crashworthiness Data System: General Vehicle Form 37. Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes (other drug(s) present) (7) Not reported (8) No driver present (9) Unknown 38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present



(8) No driver present

(9) Unknown if specimen test given

## DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER

## **Codes For DEC Test Results**

- (0) No DEC test given
- (1) Passed DEC test
- (2) Failed DEC test
- (3) DEC test given-results unknown
- (8) No driver present
- (9) Unknown if DEC test given

## **Codes for Specimen Test Results**

- (0) No specimen test given
- (1) Drug not found in specimen
- (2) Drug found in specimen
- (7) Specimen test given, results unknown or not obtained
- (8) No driver present
- (9) Unknown if specimen test given

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(OU) NO FOILOVER	(57) Fence
(01-30) — Vehicle Number	(58) Wall
Noncollision	(59) Building
	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
_	(63) Curb
Collision With Fixed Object	
(41) Tree (≤ 10 cm in diameter)	(64) Bridge
(42) Tree (> 10 cm in diameter)	(68) Other fixed object (specify):
(43) Shrubbery or bush	
(44) Embankment	(69) Unknown fixed object
( ) / Lindarkinding	· · · · · · · · · · · · · · · · · · ·
(45) Breakaway polo or need to the	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
Joshrookaway Dala Day	(76) Animal
Ionbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but ≤ 30 cm in	(79) Object fell from vehicle in-transport
diameter)	(88) Other positived chiese tensits t
(52) Pole or post (> 30 cm in diameter)	(88) Other nonfixed object (specify):
(53) Pole or post (diameter unknown)	(90) Halanana
	(89) Unknown nonfixed object
(54) Concrete traffic barrier	100) 0.1
(55) Impact attenuator	(98) Other event (specify):
(56) Other traffic barrier (includes guardrail)	
(specify):	(99) Unknown event or object

## **OTHER DATA** 56. Driver's Zip Code (00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown 57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): (9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown **ROLLOVER DATA** If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type 60. Location of Rollover Initiation

(0) No rollover (1) On roadway

(9) Unknown

(2) On shoulder—paved (3) On shoulder—unpaved

(4) On roadside or divided trafficway median

61. Rollover Initiation Object Contacted



62. Location on Vehicle Where Initial Principal Tripping Force Is Applied



- (0) No rollover
- (1) Wheels/tires
- (2) Side plane
- (3) End plane
- (4) Undercarriage
- (5) Other location on vehicle (specify):
- (8) Non-contact rollover forces (specify):
- (9) Unknown
- 63. Direction of Initial Roll



- (0) No rollover
  - (1) Roll right primarily about the longitudinal axis
  - (2) Roll left primarily about the longitudinal axis
  - (5) End-over-end (i.e., primarily about the lateral
  - (9) Unknown roll direction

### PRECRASH DATA

64. Pre-Event Movement (Prior to Recognition of Critical Event)



- (01) Going straight
- (02) Slowing or stopping in traffic lane
- (03) Starting in traffic lane
- (04) Stopped in traffic lane
- (05) Passing or overtaking another vehicle
- (06) Disabled or parked in travel lane
- (07) Leaving a parking position
- (08) Entering a parking position
- (09) Turning right
- (10) Turning left
- (11) Making a U-turn
- (12) Backing up (other than for parking position)
- (13) Negotiating a curve
- (14) Changing lanes
- (15) Merging
- (16) Successful avoidance maneuver to a previous critical event
- (97) Other (specify):
- (98) No driver present
- (99) Unknown

PRECRASH DA	ATA (Continued)
65. Critical Precrash Event	Pedestrian or Pedalcyclist, or Other Nonmotorist
This Mahinta Land Committee of the Commi	(80) Pedestrian in roadway
This Vehicle Loss of Control Due To:	(81) Pedestrian approaching roadway
(01) Blow out or flat tire	(82) Pedestrian—unknown location
(02) Stalled engine	(83) Pedalcyclist or other nonmotorist in roadway
(03) Disabling vehicle failure (e.g., wheel fell off)	(Specity):
(specify):	(84) Pedalcyclist or other nonmotorist approaching
(04) Non-disabling vehicle problem (e.g., hood flew	I roadway (specify):
up) (specify):	10E\ D=-1-1
(05) Poor road conditions (puddle, pot hole, ice, etc.)	location (specify):
(specify):	
(06) Traveling too fast for conditions	Object or Animal
(08) Other cause of control loss (specify):	(87) Animal in roadway
(09) Unknown cause of control loss	(88) Animal approaching roadway
(05) Chichewit cause of control loss	(89) Animal—unknown location
This Vehicle Traveling	(90) Object in roadway
(10) Over the lane line on left side of travel lane	(91) Object approaching roadway
(11) Over the lane line on right side of travel lane	(92) Object—unknown location
(12) Off the edge of the road on the left side	
(13) Off the edge of the road on the right side	(98) Other critical precrash event (specify):
(14) End departure	
(15) Turning left at intersection	(99) Unknown
(16) Turning right at intersection	
(17) Crossing over (passing through) intersection	
(19) Unknown travel direction	For Corrective Actions Attempted see variable GV14
The second of th	(Attemped Avoidance Manuever)
Other Motor Vehicle In Lane	
(50) Stopped	
(51) Traveling in same direction with lower speed	66. Precrash Stability After Avoidance Maneuver
(i.e., lower steady speed or decelerating)	(0) No avoidance maneuver
(52) Traveling in same direction with higher speed	(1) Tracking
(53) Traveling in opposite direction	(2) Skidding longitudinally—rotation less than 30
(54) In crossover	degrees
(55) Backing	(3) Skidding laterally—clockwise rotation
(59) Unknown travel direction of other motor vehicle	(4) Skidding laterally—counterclockwise rotation
in lane	(7) Other vehicle loss-of-control (specify):
	(17 States Vermele loss-of-control (specify):
Other Motor Vehicle Encroaching Into Lane	(8) No driver present
(60) From adjacent lane (same direction)—over left	(9) Precrash stability unknown
lane line	(3) Trecrash stability unknown
(61) From adjacent lane (same direction)—over right	
iane line	67 Prograph Dispositional Co.
(62) From opposite direction—over left lane line	67. Precrash Directional Consequences of
(63) From opposite direction—over right lane line	Avoidance Maneuver (Corrective Action)
(64) From parking lane	(O) No avoidance maneuver
(65) From crossing street, turning into same	(1) Vehicle stayed in travel lane where avoidance
direction	maneuver was initiated
(66) From crossing street, across path	(2) Vehicle stayed on roadway but left travel lane
(67) From crossing street, turning into opposite	where avoidance maneuver was initiated
direction	(3) Vehicle stayed on roadway, not known if left
(68) From crossing street, intended path not known	travel lane where avoidance maneuver was
(70) From driveway, turning into same direction	initiated
(71) From driveway, across path	(4) Vehicle departed roadway
(72) From driveway, turning into opposite direction	(5) Avoidance maneuver initiated off roadway
(73) From driveway, intended path not known	(8) No driver present
(74) From entrance to limited access highway	(9) Directional consequences unknown
(78) Encroachment by other vehicle—details unknown	The second consequences unknown
*** IF THE CDS APPLICABLE VEHICLE W	AS NOT INSPECTED (LE CV25 - 0) ***
DO NOT COMPLETE THE THE	LOILD (I.L., GV33=U),

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\* THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

HS Form 435A (Rev. 1/94) CRUSH q6

3

3.5

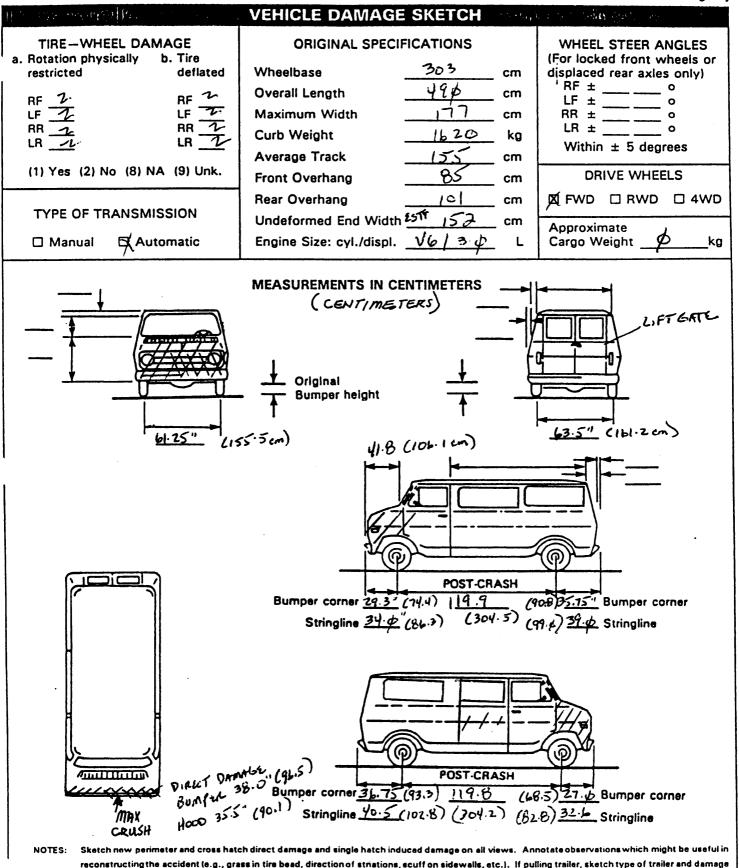
(00051NWG)

-1)

National High Administratio	way Traffic Safety n	E	XTERIO	R VEH	IICLE	FORM	NATIO	BIONAL . CRASHW	ST AVAIL		
1. Prima	ary Sampling Unit N	umber			3. Vehic	cle Num					d /
2. Case	Number - Stratum	D5/	<u>- 94-AB</u> -	<u>ø</u> 2ø							
			VEHICLE	IDEN	TIFICA	TION			-		
VIN									Model	Year	
Vehicle M	lake (specify):										
				LOCAT							
Locate th	e end of the damage lamaged axle for sid	with response	ect to the v	ehicle lor	ngitudin	al cente	r line or	bumper	corner	for end	impacts
	Impact No.		n of Direct (	Damage			l	_ocation	of Field	I L	
<del></del> -											
		<del></del>						<del></del>	·		
		CRI	JSH PROF	ILE IN	CENT	METER	00				
:	Free space value is on the individual C local side taper, etc. Rec	ord the value	ue for each	C-measu	rement	and ma	r lead, b ximum	umper t crush.	body co aper, si	ntour ta de protr	iken at rusion,
Specific	Plane of Impact	Direct	Direct Damage			Julyo	prome.		T	<del></del>	<del></del>
Impact Number	C-Measurements	Width (CDC)	Max Crush	Field	C,	C <sub>2</sub>	C3	C.	C <sub>s</sub>	C <sub>e</sub>	: D
	Bumpz BRACKETS	96.5	29,4	151.3		26· b		29.4	17.0	14.9	-27.9
	FREE SPACE CBANKA	72	8.8		1.2	1.2	1.2	1.2	1.2	1.2	
***************************************	FREZ SPACE	นว	0.7		17 (	8.B	8.8	8.8		4	ļ
	RESULTANT QUEL		18.7	<del> </del>	13.9	4.¢	0.7 8.6	0.7	4.4	13.9	<del> </del> -
						7	.O.b	18.1	3.0	4	
			·								
											<b> </b>
					1	1					

# ORIGINAL SPECIFICATIONS WORK SHEET

Whee1base	119.3 inches	x 2.54 =	<u>3 ф 3 cm</u>
Overall Length	$\perp 9 2.9$ inches		
Maximum Width	<u>69.7</u> inches	x 2.54 =	<u> </u>
Curb Weight	3.5 6 4 pounds		1.6 2 \$kg
Average Track	$ \frac{\cancel{\cancel{b}}}{\cancel{\cancel{b}}}$ inches		155 cm
Front Overhang	$\underline{35.5}$ inches		\$ 85 cm
Rear Overhang	$\frac{39.8}{}$ inches	x 2.54 =	<u> </u>
Undeformed End Width	matto 6 th. d inches		152 cm
Engine Size: cyl./displ.	3 \$ \$ \$ cc	x .001 =	16 3.0 L
	<u> </u>	x .0164 =	3.\$\varphi L



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

received on the back of this page.

			CDC	WORKSHI		T			Page
			CDC	WORKSHI	33				
			CODES FOR	OBJECT CO	NT.	ACTED			
(01-30	) — Vehicle Nu	ımber				Fence			
Noncol	lision					Wall			
	Overturn - r	ollover		(0	9)	Building			
(32)	Fire or explos	ion				Ground	r culvert		
(33)	Jackknife								
(34)	Other intrauni	it damage (spe	ecify):	(0	21	Fire hyd	arant		
		Tames (op)	,,.						
(35)	Noncollision in	niury		(0	41 01	Bridge			
(38)	Other noncoll	ision (specify)		(0	0)	Othern	xed object (	(specity):	
		•		. ა	9)	Unknov	vn fixed obje	ect	
(39)	Noncollision -	– details unkn	own				•		
Collisio	n With Fixed O	hiaa		Collis	sio	n with N	onfixed Obj	ect	
(41)	Tree (≤ 10 ci	oject o diomassa		(7	1)	Motor v	ehicle not i	n-transport	
(42)	Tree (> 10 ci	m in diameter)				Pedestr		-	
(43)	Shrubbery or	nı in diameter) buch		(7	3)	Cyclist	or cycle		
(44)	Embankment	DUSTI		(7-	4)	Other n	onmotorist (	or conveyan	ce
•				17	E۱	Vahiala			
(45)	Breakaway po	le or post (any	/ diameter)	(7	6) 0)	venicie	occupant		
	, ,	or poor (an)	, didiniotely			Animal			
Nonbre	akaway Pole or	Post			-	Train	<b>d:</b>		
(50)	Pole or post (	≤ 10 cm in di	ameter)	(7)	0) 0)	Object 6	disconnecte	d in transpo	ort
(51)	Pole or post (	> 10 cm but	< 30 cm in	(/:	3) 3)	Object 1	ell from ven	icle in-trans	port
	diameter)			(0)	וס	Other no	ontixed obje	ct (specify):	:
(52)	Pole or post (	> 30 cm in di	ameter)	(89	9)	Unknow	n nonfixed	object	<del></del>
(53)	Pole or post (d	diameter unkn	own)		-,	O I I KI I O VI	II HOIIIIXEG	Object	
(54)	Concrete traffi	io barrior		(98	B)	Other ev	ent (specify	<b>/</b> ):	
	Impact attenua								
(56)	Other traffic b	arrier (include:	s quardrail\	(9	9)	Unknow	n event or o	object	
	(specify):		gaararan,						
		DEFORM	ATION CLASS	SIFICATION B	YE	EVENT N	UMBER		
						(4)	(5)		
Accident Event		(1) (2)			S	pecific	Specific	(6)	
Sequence	Object	Direction of Force	Incremental	(3)		gitudinal	Vertical or	Type of	(7)
Number	Contacted	(degrees)	Value of Shift	Deformation		Lateral	Lateral	Damage	Deformation
		(dogrees)	Shift	Location	Lo	cation	Location	Distribution	Extent
1	ゆへ	-1D	$\phi$	F		γ	E	$\overline{\omega}$	7 .
		- $+$ $-$	- <del>- 4 - 4 -</del>	<del>'</del>	•	1		<u>w</u>	<u> </u>
					-		-		
				<del></del>	•				
					_				

## COLLISION DEFORMATION CLASSIFICATION

HIGHEST DELTA "V"

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. 0 1	5. 0 2	6. 1 2	7. <u>F</u>	8. 7	9 <u> </u>	10. <u>W</u>	11. \$ 1

Second Highest Delta "V"

12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----

# CRUSH PROFILE IN CENTIMETERS

The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)

HIGHEST DELTA "V"

(O) No

(1) Yes

20. L 
$$\frac{c_1}{c_1}$$
  $\frac{c_2}{c_3}$   $\frac{c_4}{c_4}$   $\frac{c_6}{c_6}$   $\frac{c_6}{\pm D}$ 

L  $\frac{c_1}{c_1}$   $\frac{c_2}{c_3}$   $\frac{c_4}{c_4}$   $\frac{c_6}{c_6}$   $\frac{c_6}{\pm D}$ 

L  $\frac{c_1}{c_1}$   $\frac{c_2}{c_2}$   $\frac{c_3}{c_4}$   $\frac{c_4}{c_6}$   $\frac{c_6}{c_6}$   $\frac{c_6}{\pm D}$ 

Second Highest Delta "V"

23. 24.

±D

- 26. Are CDCs Documented 27. Researcher's Assessment 28. Original Wheelbase but Not Coded on The of Vehicle Disposition Code to the Automated File? nearest centimeter
  - (0) Not towed due to vehicle damage (1) Towed due to vehicle damage

(9) Unknown

19.3 inches  $\times 2.54 = 363$  centimeters

(999) Unknown

25.

(6) Abraded (scraped)

(9) Unknown

(8) Other damage (specify):

(7) Filler neck separation from the fuel tank

					Page
	Location of Fuel System-1 Leakage	1	44. Is 7	This Vehicle Equipped With More Than O Fuel Tanks?	φ
41.	Location of Fuel System-2 Leakage (0) No fuel tank	φ		No (one or two tanks only)	(
l	(1) No fuel leakage	·	Vac	: - More Than Two Tanks	
	•			Yes no damage to any tank or filler	
1	Primary Area Of Leakage			cap and no fuel system leakage	
	(2) Tank (3) Filler neck		(2)	Yes no damage to any tank or filler	
	(4) Cap			cap but there is fuel system leakage	
	(5) Lines/pump/filter			(specify leakage location):	
	(6) Vent/emission recovery		(3)	Yes damage to an additional tank or	
	(8) Other (specify):			filler cap and there is fuel system leakage	e
	(9) Unknown			(specify the following):	
	(3) Chridwii			Type of tank	
		4		i allk location	
42.	Fuel Type-1	фΙ		Filler cap location Tank damage	
42	Final Time 0	一丁 一		Location of leakage	
43.	Fuel Type-2	42		IVAN AT TIMI	
	Single Fuel Type	'	(9)	Unknown if more than two tanks	
	(00) No fuel tank				
	(01) Gasoline				
	(02) Diesel			COMMENTS	
	(03) CNG (Compressed Natural Gas)				
	(04) LPG (Liquid Petroleum Gas) also known as Propane				
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85)				
	(08) Other (Hydrogen or others) (specify):				
	Electric Powered or Electric/Solar			,	
	Powered Vehicles				
	(10) Lead Acid Battery				
	(11) Nickel-Iron Battery	}			_
	(12) Nickel-Cadmium Battery (13) Sodium Metal Chloride Battery	ĺ			
	(14) Sodium Sulfur Battery				_
	(18) Other (Specify):				_
	(98) Other Hybrid (specify):				
(	(99) Unknown fuel type				
					_
					<del></del>
	•				

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED AND WAS NOT AN AOPS \*\*\* (I.E., GV09=0 OR 9 AND GV36=0), DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

National Highway Traffic Safety Administration

## INTERIOR VEHICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM

CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 2. Case Number Stratum

DSI-94- AB- ZD

3. Vehicle Number



#### INTEGRITY

4. Passenger Compartment Integrity (00) No integrity loss

Yes, Integrity Was Lost Through

- (01) Windshield
- (02) Door (side)
- (03) Door/hatch (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):
- (99) Unknown

Door, Tailgate or Hatch Opening

- 6. RF / 7. LR 🕁 8. RR | 9. TG/H /
  - (0) No door/gate/hatch
  - (1) Door/gate/hatch remained closed and operational
  - (2) Door/gate/hatch came open during collision
  - (3) Door/gate/hatch jammed shut
  - (8) Other (specify):
  - (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

11. RF <u>(b)</u> 12. LR (b) 13. RR (b)

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

#### GLAZING

Glazing Damage from Impact Forces

17. RF <u>d</u> 18. LR <u>d</u> 19. RR d

20. BL . 21. Roof . 22. Other .

- (0) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from impact forces .
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (8) No glazing
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

28. BL <u>#</u> 29. Roof <u>#</u> 30. Other <u>#</u>

- (0) No occupant contact to glazing or no glazing
- (1) Glazing contacted by occupant but no glazing damage
- (2) Glazing in place and cracked by occupant contact
- (3) Glazing in place and holed by occupant contact
- (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (5) Glazing out-of-place by occupant contact and holed by occupant contact
- (6) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø

Type of Window/Windshield Glazing

31. WS $_{\cancel{\phi}}$  32. LF $_{\cancel{\phi}}$  33. RF $_{\cancel{\phi}}$  34. LR $_{\cancel{\phi}}$  35. RR $_{\cancel{\phi}}$ 

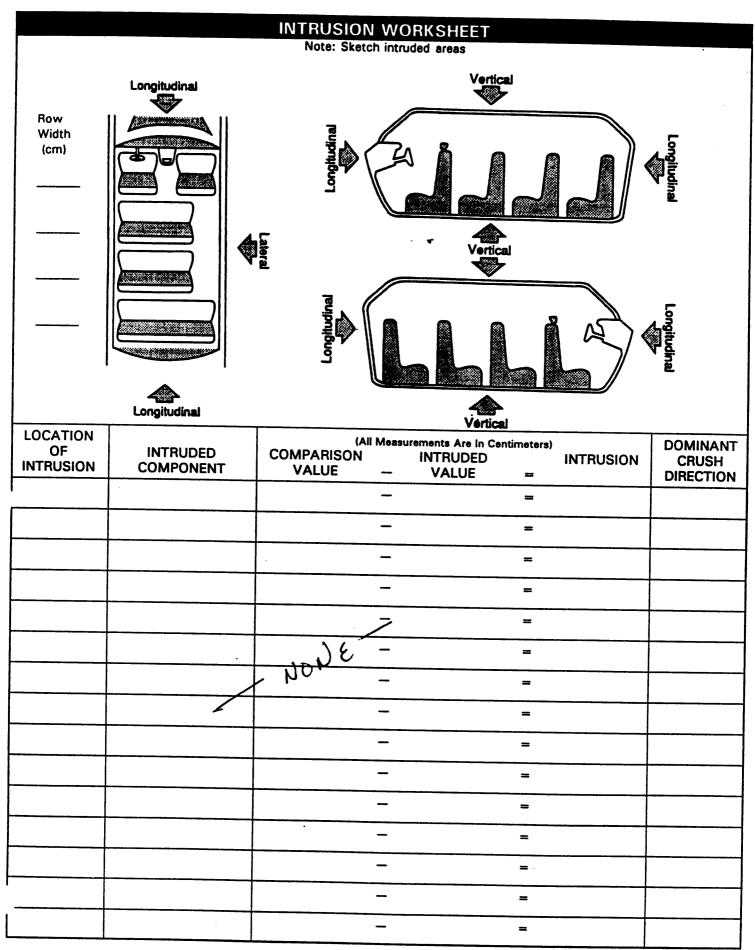
36. BL $\underline{\phi}$  37. Roof $\underline{\phi}$  38. Other $\underline{\phi}$ 

- (0) No glazing contact and no damage, or no glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered
- (3) AS-3 Tempered-tinted
- (4) AS-14 Glass/Plastic
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

39. WS<u>₺</u> 40. LF<u>₺</u> 41. RF<u>₺</u> 42. LR<u>₺</u> 43. RR<u>₺</u>

- (0) No glazing contact and no damage, or no glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (9) Unknown



## OCCUPANT AREA INTRUSION

Not	e: If no intrusio	ns, leave varia	bles IV47-I\	/86 blank.
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47	48	_ 49	50
2nd	51	52	_ 53	54
3rd	55	56	_ 57	58
4th	59	60	61	62
5th	63	64.	65	66
6th	67	68	69	70
7th	71	72	73	74
8th	75	76	77	78
9th	79	80	81	82
10th	83	84	85	86

#### **LOCATION OF INTRUSION**

Front Seat (11) Left (12) Middle (13) Right

Fourth Seat (41) Left

(42) Middle

(43) Right

Second Seat (21) Left (22) Middle

(23) Right

(97) Catastrophic (98) Other enclosed area (specify)

Third Seat

(31) Left

(32) Middle (33) Right

(99) Unknown

#### INTRUDING COMPONENT

Interior Components

(01) Steering assembly

(02) Instrument panel left

(03) Instrument panel center

(04) Instrument panel right

(05) Toe pan

(06) A (A1/A2)-pillar

(07) B-pillar

(08) C-pillar (09) D-pillar

(10) Door panel (side)

(12) Roof (or convertible top)

(13) Roof side rail

(14) Windshield

(15) Windshield header

(16) Window frame

(17) Floor pan (includes sill)

(18) Backlight header

(19) Front seat back

(20) Second seat back

(21) Third seat back

(22) Fourth seat back (23) Fifth seat back

(24) Seat cushion

(25) Back door/panel (e.g., tailgate)

(26) Other interior component (specify):

(27) Side panel - forward of the A (A2)-pillar

(28) Side panel - rear of the A (A2)-pillar

#### Exterior Components

(30) Hood

(31) Outside surface of this vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s) (specify):\_

(99) Unknown

#### MAGNITUDE OF INTRUSION

(1)  $\geq$  3 centimeters but < 8 centimeters

(2) ≥ 8 centimeters but < 15 centimeters

(3)  $\geq$  15 centimeters but < 30 centimeters

(4) ≥ 30 centimeters but < 46 centimeters

(5) ≥ 46 centimeters but < 61 centimeters

(6) ≥ 61 centimeters

(7) Catastrophic

(9) Unknown

#### DOMINANT CRUSH DIRECTION

(1) Vertical

(2) Longitudinal

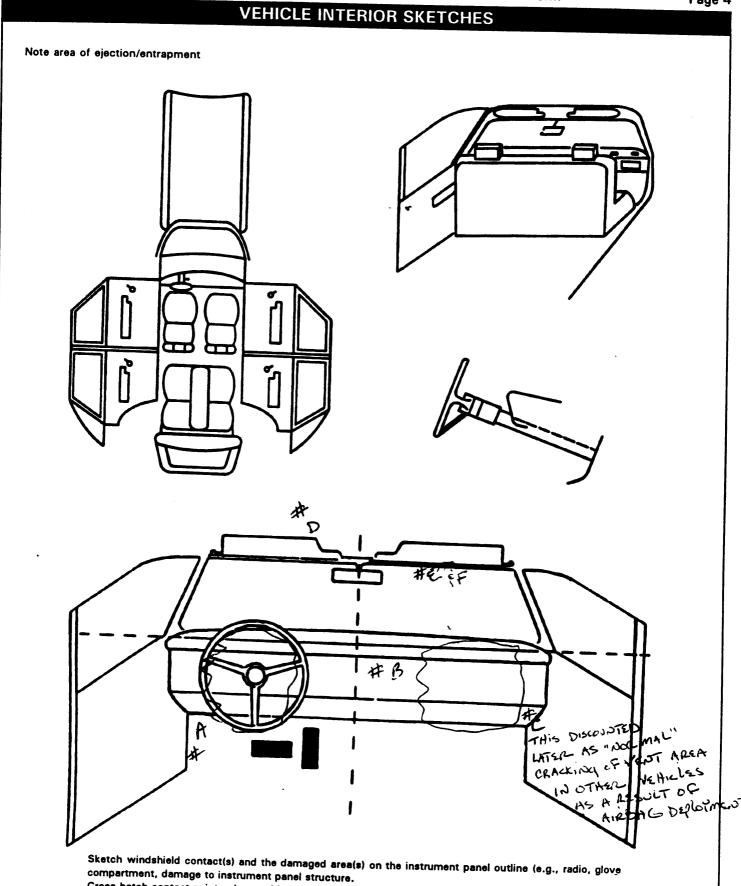
(3) Lateral

(7) Catastrophic

(9) Unknown

(All Messurements Are in Contimeters)							
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION			
,	-		=				
$\mathcal{D}$	-		=	ch			
	_		<b>**</b>				
			=	/			
		·					
	•						

#### STEERING COLUMN 93. Location of Steering Rim/Spoke Deformation 87. Steering Column Type (1) Fixed column Quarter Sections (2) Tilt column (01) Section A (3) Telescoping column (02) Section B (03) Section C (4) Tilt and telescoping column (8) Other column type (specify): (04) Section D (9) Unknown Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke 88. Blank (09) Complete steering wheel collapse XX(This variable is left blank (10) Undetermined location so that numbering consistency (99) Unknown can be maintained with the 1988-94 CDS. 89. Blank XXX (This variable is left blank INSTRUMENT PANEL so that numbering consistency can be maintained with the 94. Odometer Reading 9\_,000 1988-94 CDS. kilometers-Code to the nearest 1,000 kilometers (000) No odometer 90. Blank (001) Less than 1,500 kilometers $\mathbf{X} \mathbf{X} \mathbf{X}$ (This variable is left blank (500) 499,500 kilometers or more so that numbering consistency (999) Unknown can be maintained with the 1988-94 CDS. Source: VEHICLE INSPECTION 91. Blank $\mathbf{X} \mathbf{X} \mathbf{X}$ (This variable is left blank so that numbering consistency 95. Instrument Panel Damage from can be maintained with the Occupant Contact? 1988-94 CDS. (0) No (1) Yes (9) Unknown 92. Steering Rim/Spoke Deformation 96. Knee Bolsters Deformed from Code actual measured deformation to the nearest centimeter Occupant Contact? <u>Ø</u>\_ (00) No steering rim deformation (0) No (01-14) Actual measured value in centimeters (1) Yes (8) Not present (15) 15 centimeters or more (98) Observed deformation cannot be measured (9) Unknown (99) Unknown 97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

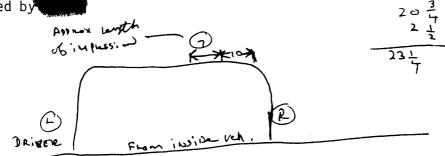
Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

		POIN	TS OF OCC	CUPANT CONTACT	
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
Α	45	1	FACE "CITEST	CHEST CONTUSION TO BRIVER	,
В	95	13	FACE	ABPASION AS TO FACE	i
С	jį	<b>~</b>		DISCOUNTED SEE PAGE #17	`
D	<b>b</b> 3	11	HEAD	Broken Son VISOR	.3
E	50	13	HEAD	CHECKAR TODGESTATION - SKULL FX	2.
F	03	13	HEAD	INDENTATION - SKALL FX	2
G	,				
Н	••				
l					·
J					
К					
L					
М					
N					

G	}	1			
Н	·				
ı			-		
J					
K					
L					
М					
N					
		CODES	EOD INTEDIOD COMPONENTS		<u> </u>
		CODES	FOR INTERIOR COMPONENTS		
FRONT		(23)	Left B-pillar	(46)	Other occupants (specify):
(01)	Windshield		Other left pillar (specify):	• •	
(02)	Mirror			(47)	Interior loose objects
(03)	Sunvisor		Left side window glass or frame	(48)	Child safety seat (specify):
(04)	Steering wheel rim	(26)	Left side window glass including		
	Steering wheel hub/spoke		one or more of the following:	(49)	Other interior object (specify):
(06)	Steering wheel (combination		frame, window sill, A (A1/A2)-pillar,		
	of codes 04 and 05)		B-pillar, or roof side rail.		
(07)	Steering column, transmission	(27)	Other left side object (specify):	ROOF	
(00)	selector lever, other attachment	(20)	1 - 40 - 1 - 1 - 1 - 1	(50)	Front header
(08)	Add on equipment (e.g., CB, tape deck, air conditioner)	(28)	Left side window sill	(51)	
1001	Left instrument panel and below	RIGHT	SIDE	(52)	
	Center instrument panel and below		Right side interior surface,		Roof right side rail
	Right instrument panel and below	(30)	excluding hardware or armrests	(94)	Roof or convertible top
	Glove compartment door	(31)	Right side hardware or armrest	FLOOR	
	Knee bolster		Right A (A1/A2)-pillar		Floor (including toe pan)
	Windshield including one or more		Right B-pillar		Floor or console mounted
``'	of the following: front header,		Other right pillar (specify):	(37)	transmission lever, including
	A (A1/A2)-pillar, instrument pane		t mer mg p.mer (speemy).		console
•	mirror, or steering assembly (drive		Right side window glass or frame	(58)	Parking brake handle
	side only)		Right side window glass including		Foot controls including parking
(15)	Windshield including one or more		one or more of the following:		brake
ŀ	of the following: front header,		frame, window sill, A (A1/A2)-pillar,		
	A (A1/A2)-pillar, instrument panel	, or	B pillar, or roof side rail.	REAR	
}	mirror (passenger side only)	(37)	Other right side object (specify):	(60)	Backlight (rear window)
(16)	Driver side air bag compartment			(61)	
İ	cover	(38)	Right side window sill	(62)	Other rear object (specify):
(17)	Passenger side air bag				
	compartment cover	INTERIO	OR .		
(18)	Windshield reinforced by exterior		Seat, back support		
	object (specify):		Belt restraint webbing/buckle		
(19)	Other front object (specify):	(42)	Belt restraint B-pillar		CONFIDENCE LEVEL OF
			attachment point		CONTACT POINT
		(43)	The state of the s		
LEFT SI		4.4.4.	(specify):		(1) Certain
(20)	Left side interior surface,		Head restraint system		(2) Probable
}	excluding hardware or armrests	(45)	Air bag (use codes "16" and "17"	1	(3) Possible

- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar

- for injuries sustained from air bag compartment covers)
- (3) Possible
- (9) Unknown



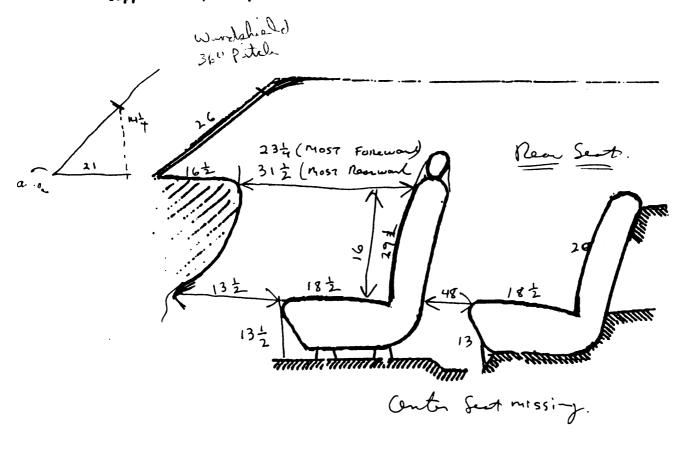
Case number:

Vehicle Code:

Seat Position: | & 3

#### AUXILIARY VEHICLE INTERIOR DIAGRAM

To be used when additional space is required to accommodate measurements not included on supplement D, or to provide further detail or additional sketches.



Sent Barr 18 4 aru

Recline to about 45°

#### **AUTOMATIC RESTRAINTS** NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. AIR BAGS Left Availability/Function R Deployment S Failure Air Bag System Availability/Function Air Bag System Deployment Are There Indications of Air Bag (0) Not equipped/not available (0) Not equipped/not available System Failure? (1) Air bag (1) Air bag deployed during accident (O) Not equipped/not available (as a result of impact) (1) No Non-functional (2) Air bag deployed inadvertently just (2) Yes (specify): (2) Air bag disconnected (specify): prior to accident (3) Air bag deployed, accident sequence (9) Unknown (3) Air bag not reinstalled undetermined (9) Unknown (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Left Right Availability/Function Use R Type S **Proper Use** Failure Modes Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Belt Failure Modes Availability/Function System **During Accident** (0) Not equipped/not available (O) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(s) (2) 3 point automatic belts (2) Automatic belt used properly with (2) Torn webbing (stretched webbing not (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor back Combination of above (specify): Automatic (Passive) Belt System Use (5) Automatic belt worn around more (8) Other automatic belt failure (specify): (0) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperly (3) Automatic belt use unknown with child safety seat (specify): (9) Unknown (8) Other improper use of automatic belt Automatic (Passive) Belt System Type system (0) Not equipped/not available (specify): Non-motorized system (9) Unknown (2) Motorized system (9) Unknown

## MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous

		Left	Center	Right
F	Availability	J	ψ	i i i i i i i i i i i i i i i i i i i
i	Evidence of usage	Y29		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
R	Used in this crash?	<b>b</b> th	— ф ф	75.3
S	Proper Use	(b)		Φ\$
	Failure Modes	b	<del></del> β	要'
S	Availability		Ψ'	Ψ
Ĕ	Evidence of usage	SEAT O		<del></del>
SECO	Used in this crash?	removed		<del>                                     </del>
Ŋ	Proper Use			<del></del>
U	Failure Modes			<del></del>
0	Availability	u	7	
Ϋ́Ι	Evidence of usage	NO.		
Ĥ	Used in this crash?	ΦΦ	<u>~~</u>	YES
E	Proper Use	Φ	φ.φ	$\mathcal{D}\phi$
R	Failure Modes	Ψ,	<del>_</del>	<u> </u>

Manual (Active) Belt System Availabilit	Manuai	(Active)	Belt	System	Availabilit
---	--------	----------	------	--------	-------------

- (0) None available
- Belt removed/destroyed
- Shoulder belt
- (3) Lap belt
- Lap and shoulder belt
- (5) Belt available type unknown

#### Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt
- destroyed/removed) (7) Lap beit (shoulder beit destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

#### Manual (Active) Belt System Use

- (00) None used, not available, or belt
- removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03)Lap belt
- (04)Lap and shoulder belt
- (05) Belt used type unknown
- Other belt used (specify): (08)
- (12)Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- Lap and shoulder belt used with child (14)
- safety seat (15) Belt used with child safety seat -
- type unknown
- (18)Other belt used with child safety seat (specify):
- (99) Unknown if belt used

#### Proper Use of Manual (Active) Belts

- (O) None used or not available
- Belt used properly
- (2) Belt used properly with child safety seat

#### Belt Used Improperly

- Shoulder belt worn under arm Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- Lap belt worn on abdomen
- Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

## Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

W	CHILD SAFE	TY SEAT F	IELD ASSI	ESSMENT		
th	hen a child safety seat is present enter the e occupant's number using the codes liste	occupant's need below. Co	umber in the f mplete a colu	irst row and co mn for each c	omplete the co hild safety sea	olumn below at present.
0	ccupant Number					
1.	Type of Child Safety Seat					
2.	Child Safety Seat Orientation					
3.	Child Safety Seat Harness Usage					
4.	Child Safety Seat Shield Usage		- 🖛			
5.	Child Safety Seat Tether Usage					
6.	Child Safety Seat Make/Model	Specif	y Below for Ea	ich Child Safe	ty Seat	
1.	Type of Child Safety Seat  (0) No child safety seat		3. Child Safe	ety Seat Harno	ess Usage	<u> </u>
	<ul> <li>(1) Infant seat</li> <li>(2) Toddler seat</li> <li>(3) Convertible seat</li> <li>(4) Booster seat</li> <li>(7) Other type child safety seat (specify)</li> </ul>	ı <b>:</b>	5. Child Safe Note: Opt	ety Seat Shield ety Seat Tethe tions Below Al child safety se	er Usage re Used for Va	ariables 3-5.
2.	(8) Unknown child safety seat type (9) Unknown if child safety seat used Child Safety Seat Orientation	_	Not Desig (01) Afte adde	ned with Harr or market harn ed, not used or market harn	ness/Shield/Te ess/shield/teth	er
	(00) No child safety seat  Designed for Rear Facing for This Age/Weight (01) Rear facing		(03) Child harn (09) Unki	d safety seat uses/shield/tethenown if harnesed or used	used, but no a ner added	fter market
	(02) Forward facing (08) Other orientation (specify):		(11) Harn (12) Harn	With Harness/ less/shield/tethess/shield/teth	her not used her used	
	Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation		Unknown (21) Harn (22) Harn (29) Unkr	nown if harnes  If Designed W ess/shield/teth ess/shield/teth nown if harnes	fith Harness/S her not used her used s/shield/tethe	hield/Tether r used
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	•	6. Child Safe	ty Seat Make/lake/model and	Model	
	(29) Unknown orientation			-		
	(99) Unknown if child safety seat used					

# HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	1	ф	l
I R	Seat Type	φ1.	ΦΦ	4.
S	Seat Performance	1	<i>φ</i>	Ψ1-
<u>'</u>	Seat Orientation	1	φ,	
S	Head Restraint Type/Damage	/	Ψ,	<del>                                     </del>
S E C	Seat Type			/
0 N	Seat Performance			/
D	Seat Orientation			-
Т	Head Restraint Type/Damage	(b	- <b>L</b>	- +
Н	Seat Type	φ <sub>5</sub>	$\frac{\varphi}{\varphi}$	9
R D	Seat Performance	1	<u>Φ5</u>	φ5
	Seat Orientation			
0	Head Restraint Type/Damage		-	
Ť	Seat Type			
E	Seat Performance			
R	Seat Orientation			

#### Head Restraint Type/Damage by Occupant at This Occupant Position

- No head restraints
- (1) Integral no damage
   (2) Integral damaged during accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5)
- Add-on no damage Add-on damaged during accident (6)
- Other Specify): (8)
- (9) Unknown

#### Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02)Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

#### Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- No seat performance failure(s) (1)
- Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

#### Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT **CONTACT PATTERN)** 

	The data on the Occupant Assessme	cupant was either ejected from or entrapped ent Form.
Occupant Number		
Ejection		
(Note on Vehicle Interior Sketch) Ejection Area		
Ejection Medium		
Medium Status		
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown  Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):  (9) Unknown  Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify)	(9) Unknown  Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure
ENTRAPMENT No  Yes  Describe entrapment mechanism:		
Component(s):		
(Note in vehicle interior diagram)		

#### **Interview Form**

Case Number:

Interviewee:

DSI-AB-94-20

**Vehicle Number:** 

01 Case Vehicle Driver

**Accident Date/Time:** 

Fall, morning hours

#### **Description of Accident**

I was north on Street in the middle lane. I was approaching the intersection at about 16 KPH (10 MPH) when the car going in the opposite direction turned left right in front of me. I saw her coming and I turned to the right and braked. The other car just kept coming and I crashed into it.

My daughter was laying in between both of the front seats. I got out of the van and ran around to the right front door. I don't know if the door was damaged or locked, but I couldn't open it, so I ran back to my door (left front) and lifted her out of the van.

I was not wearing my seat belt, and my daughter next to me (right front) was not wearing her seat belt either. We were only a couple of blocks from home and I had told her to put the seat belt on several times. She was trying to put it on when the accident happened. I don't know if my daughter in the back (left rear) had her seat belt on, but we always wear them, so I think she was wearing hers. She was not injured.

I had a bruise to my chest. My daughter (right front occupant) had a deep crevice to the top of her head.

COMMENTS ON PERFORMANCE OF AIRBAG?: The driver remembers a smell. She does not remember a noise. She saw the airbag coming at her when it deployed.

The driver of Vehicle 1 feels that the airbag is what struck the right front occupant causing her to override the airbag and strike the windshield. She was further told by the police that if the right front occupant had been belted, she would have been struck very hard by the airbag and seriously injured.

The driver of Vehicle 1 feels that airbags are unsafe and can cause serious injuries. She wants warning labels attached to airbag-equipped vehicles warning occupants of such dangers.

Was the sun visor on driver's side damaged prior to the accident? No it was fine before the accident.

Do you remember striking the driver's sun visor? No I didn't strike it.

Did you sustain any injuries to your head, face? None.

Did the right front passenger strike you, did you see her on your side? No.

Was the right front passenger wearing sunglasses? Yes they were knocked off and broken.

What type of clothing was the right front passenger wearing? A heavy coat and a backpack.

Seat Position	Left front	Right front	Left rear	
Age/Sex	37/Female	4/Female	11/Female	
Height/Weight	63"/118 lbs.	41"/35 lbs.	58"/60 lbs.	
Posture	Normal upright	Normal upright, trying to put her lap/shoulder restraints	Unknown	
Ejection	No	No	No	
Entrapment	No	No	No	
Restraint Type	Manual: Lap/shoulder Automatic: Airbag	Manual: Lap/shoulder Automatic: Airbag	Manual: Lap/shoulder	
Usage/Failures	None/None	None/None	None/None	
Treatment	Paramedics, private physician	DOA, paramedics on scene, emergency room	paramedics, emergency room	
Time in hospital	None	N/A	None	
Lost working days  74 days +, she has been off of work since accident		N/A	N/A	
Glasses or Contact Lenses? Y/N	None	Wearing sunglasses that were knocked off and broken	None	

National Highway Traffic Safety

OCCUPANT ASSESSMELT I OFFICE NATIONAL ACCIDENT SAMPLING SYSTEM Administration CRASHWORTHINESS DATA SYSTEM OCCUPANT'S SEATING 1. Primary Sampling Unit Number 2. Case Number - Stratum DSI - 94- AB-24 10. Occupant's Seat Position Front Seat (11) Left side 3. Vehicle Number (12) Middle 4. Occupant Number (13) Right side (14) Other (specify): OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant 5. Occupant's Age Second Seat Code actual age at time of accident. (21) Left side (00) Less than one year old (specify by month): (22) Middle (23) Right side (97) 97 years and older (24) Other (specify): (99) Unknown (25) On or in the lap of another occupant Third Seat (31) Left side 6. Occupant's Sex (32) Middle (1) Male (33) Right side (2) Female (34) Other (specify): (9) Unknown (35) On or in the lap of another occupant Fourth Seat (41) Left side 7. Occupant's Height (42) Middle Code actual height to the nearest (43) Right side centimeter. (44) Other (specify): (999) Unknown (45) On or in the lap of another occupant (43) inches  $\times 2.54 = 16$  centimeters (97) In or on unenclosed area (98) Other seat (specify):\_\_\_ (99) Unknown 8. Occupant's Weight Code actual weight to the nearest kilogram. 11. Occupant's Posture (999) Unknown (0) Normal posture 199 pounds X .4536 = 495 kilograms Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another 9. Occupant's Role occupant or to look out a rear window (1) Driver (5) Sitting on a console (6) Lying back in a reclined seat position (2) Passenger (7) Bracing with feet or hands on a surface in front (9) Unknown of seat (8) Other abnormal posture (specify): (9) Unknown

F IECTI	ON/E	NTRAPMENT
202011	OIV/L	MINAPINEN
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<b>p</b>	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	9	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	ф. 	
	.1	

RESTRAINT SYS	STEM EVALUATION
17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):
Integral Belt Partially Destroyed  (6) Shoulder belt (lap belt destroyed/removed)  (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
(8) Other belt (specify):	22. Air Bag System Deployment
18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined
(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat	<ul> <li>(4) Nondeployed</li> <li>(5) Unknown if deployed</li> <li>(6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(9) Unknown</li> </ul>
(13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify):
19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(9) Unknown  Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
<ul> <li>Belt Used Improperly</li> <li>(3) Shoulder belt worn under arm</li> <li>(4) Shoulder belt worn behind back or seat</li> <li>(5) Belt worn around more than one person</li> <li>(6) Lap belt worn on abdomen</li> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> <li>(8) Other improper use of manual belt system</li> </ul>	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified
(specify):	(6) Child safety seat (7) Other or automatic restraint (specify):
(9) Unknown	(8) Restrained, type unknown
20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	(9) Police indicated "unknown"
(9) Unknown	

		HEAD RESTRAINT AN	SEAT EVALUATION	
25.	at T (0) (1) (2) (3) (4) (5) (6) (8)	d Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident	27. Seat Performance (this Occupan  (0) Occupant not seated or no s  (1) No seat performance failure( (2) Seat adjusters failed (3) Seat back folding locks or "s  (specify):  (4) Seat track/anchors failed (5) Deformed by impact of occu (6) Deformed by passenger com  (specify):  (7) Combination of above (specify)	eat s) eat back failed pant partment intrusion
	(00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	Type (this Occupant Position) Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify):  Box mounted seat (i.e., van type) Unknown	(8) Other (specify): (9) Unknown	<b>y</b> 1.

## 28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 30. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- CHILD SAFETY SEAT 31. Child Safety Seat Harness Usage 32. Child Safety Seat Shield Usage 33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used
  - (19) Unknown if harness/shield/tether used

    Unknown If Designed With Harness/Shield/Tether
  - (21) Harness/shield/tether not used(22) Harness/shield/tether used

(12) Harness/shield/tether used

- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

	IN HIDY CONCEQUENCES	rage
34.	INJURY CONSEQUENCES  Injury Severity (Police Rating)	38. Working Days LostCode the number of days
	(0) O - No injury	(up through 60) that the occupant lost from work due to the accident
	(1) C - Possible injury	(00) No working days lost
	(2) B - Nonincapacitating injury	(61) 61 days or more
	(3) A - Incapacitating injury	(62) Fatally injured
	(4) K - Killed	(97) Not working prior to accident
	(5) U - Injury, severity unknown	(99) Unknown
	(6) Died prior to accident	
	(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
35.	Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE
	(0) No treatment	COMPLETED BY THE ZONE CENTER
	(1) Fatal	
	(2) Fatal - ruled disease (specify):	
	(opening)	39. Time to Death
		Code number of hours from time of
	Nonfatal	accident to time of death up through 24
	(3) Hospitalization	hours. If time of death is greater than 24
	(4) Transported and released	hours, code number of days. (Note: 1 day =
	(5) Treatment at scene - nontransported	$31, 2 \text{ days} = 32, \dots \text{ n days} = 30 + \text{n up}$
	(6) Treatment later	through 30 days = 60)
	(8) Treatment - other (specify):	(00) Not fatal
		(96) Fatal - ruled disease
	(9) Unknown	(99) Unknown
36.	Type Of Medical Facility (for Initial Treatment) 2	40. 1st Medically Reported Cause of Death
	(O) Not treated at a medical facility	
	(1) Trauma center	41. 2nd Medically Reported Cause of Death 6
	(2) Hospital	
	(3) Medical clinic	42. 3rd Medically Reported Cause of Death
	(4) Physician's office	Code the Occupant Injury from line 7
	(5) Treatment later at medical facility	number(s) for the medically reported
	(8) Other (specify):	injury(s) which reportedly contributed to
	<u> </u>	this occupant's death
	(9) Unknown	(00) Not fatal or no additional causes
	·	(96) Mode of death given but specific
	1	injuries are not linked to cause
	Hospital Stay 🖒 🔓 📗	of death. (specify):
	(00) Not Hospitalized	(07) Orbon to #
	Code the number of days (up through 60)	(97) Other result (includes fatal ruled
	that the occupant stayed in hospital.	disease) (specify):
	(61) 61 days or more	(99) Unknown
•	(99) Unknown	(33) Olikilowii
		43. Number of Recorded Injuries for
	·	This Occupant
	- 1	Code the actual number of
		injuries recorded for this occupant.
		(00) No recorded injuries
	İ	(97) Injured, details unknown
	İ	(99) Unknown if injured
	į	,5

(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):

(8) Other improper use of automatic belt system (specify):

(9) Unknown

ARE ALL APPLICABLE MEDICAL RECORDS INCLUDED WITH INITIAL SUBMISSION?

NO[] YES

**UPDATE CANDIDATE?** 

NO [/] YES [ ]

# STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER

#### TRAUMA DATA

- 50. Glasgow Coma Scale (GCS) Score (at Medical Facility)
  - (00) Not injured
  - (01) Injured not treated at medical facility
  - (02) No GCS Score at medical facility
  - (03-15) Code the actual value of the initial GCS Score recorded at medical facility.
  - (97) Injured, details unknown
  - (99) Unknown if injured
- 51. Was the Occupant Given Blood?
  - (1) No blood not given
  - (2) Yes blood given (specify units):
  - (9) Unknown if blood given
- 52. Arterial Blood Gases (ABG) HCO3
  - (00) Not injured
  - (01) Injured, ABGs not measured or reported
  - (02-50) Code the actual value of theHCO3
  - (96) ABGs reported, HCO3 unknown (97) Injured, details unknown

  - (99) Unknown if injured

#### BELT USE DETERMINATION

- 53. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed
  - or rendered inoperative Vehicle inspection
  - Official injury data
  - Driver/occupant interview
  - Other (specify): Unknown if belt used

National Highway Traffic Safety Administration

## **OCCUPANT INJURY FORM**

O.M.B. No. 2127-0021 NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- DSI-94-4B-24. 2. Case Number - Stratum
- 3. Vehicle Number
- 4. Occupant Number



#### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source		Caa :					A.I.S	90						Injury		00000
	of Injui	ry	Body Region	Type ( Anaton Structi	nic	Specific Anatomic Structure		Level of Injury	A.I.S. <sup>r</sup> Severity	Aspect	-	nry	Source Confidence Level	Direct/ Indirect	Occupa Area Intrusio Numbo		
1 <b>s</b> t	5. <u>7</u>	6.	4	, <u>9</u>	8.	ф4 -	9.	<u> </u>	10. <u> </u>	11.4	12. 4	5	13				
2nd	16	17.		18	19.		20.		21	22	23		24	25 2	26		
3rd	27	28.		29	30.		31		32	33	34		35	363	17		
4th	38	39.		40	41.		42		43	44	45		18 4	7 4	8		
5th	49	50.		51	52.		53		54	55	56		7 5	8 5	9		
6th	60	61.		32	63		84		65	66	67	6	86	9 7	o		
7th	71	72.		<b>'3.</b>	74		75		76	77	78	_ 7	98	0:8	<b>I.</b>		
Bth	82	83.	8	ı4. <u> </u>	85	(	36		B71	38	89	9	0. <u> </u>	1 92			
)th	93	94.	9	5	96	{	)7		98 \$	91	00	_ 10	1 102	2103			
Oth	104	105	10	6 1	07	10	B	10	)9. <sub>—</sub> 11	01	11.	11:	112	114			
		£1.						AND THE STATE OF T						` ' '4	•		

'4S Form 433B (1/94)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

#### SOURCE OF INJURY DATA (25) Left side window glass or frame (61) Backlight storage rack, door, etc. (26) Left side window glass including (62) Other rear object (specify): (1) Autopsy records with or without hospital/ one or more of the following: medical records frame, window sill, A (A1/A2)-pillar, Hospital/medical records other than B-piller, or roof side rail. EXTERIOR of OCCUPANT'S VEHICLE emergency room (e.g., discharge (27) Other left side object (specify): summary) (65) Hood (66) Outside hardware (e.g., outside (3) Emergency room records only (including (28) Left side window sill mirror, antenna) associated X-rays or other lab reports) Other exterior surface or tires Private physician, walk-in or emergency RIGHT SIDE (specify): clinic (30) Right side interior surface, (68) Unknown exterior objects excluding hardware or armrests UNOFFICIAL Right side hardware or armrest **EXTERIOR OF OTHER MOTOR VEHICLE** (5) Lay coroner report (32) Right A (A1/A2)-pillar (70) Front bumper (6) E.M.S. personnel (33) Right B-pillar Interviewee (71) Hood edge (34) Other right pillar (specify): (72) Other front of vehicle (specify): Other source (specify): (8) (35) Right side window glass or frame (73) Hood (9) Police Right side window glass including (74) Hood ornament one or more of the following: (75)Windshield, roof rail, A-pillar frame, window sill, A (A1/A2)-pillar. **INJURY SOURCE** (76) Side surface B-pillar, or roof side rail. (77)Side mirrors FRONT (37) Other right side object (specify): (78) Other side protrusions (specify) (01) Windshield (O2) Mirror (38) Right side window sill (79) Rear surface (03) Sunvisor (04) Steering wheel rim (80) Undercarriage INTERIOR (81) Tires and wheels (05) Steering wheel hub/spoke (40) Seat, back support (82) Other exterior of other motor vehicle (06) Steering wheel (combination (41) Belt restraint webbing/buckle of codes 04 and 05) (specify): (42) Belt restraint B-pillar or door frame (07) Steering column, transmission attachment point (83) Unknown exterior of other motor vehicle selector lever, other attachment (43) Other restraint system component (08) Add on equipment (e.g., CB, tape (specify): deck, air conditioner) OTHER VEHICLE OR OBJECT IN THE (44) Head restraint system **ENVIRONMENT** Left instrument panel and below (45) Air bag (use codes "16" and "17" for injuries (10) Center instrument panel and below (84) Ground sustained from air bag compartment covers) (85) Other vehicle or object (specify) (11) Right instrument panel and below (46) Other occupants (specify): (12) Glove compartment door (86) Unknown vehicle or object (13) Knee bolster (47) Interior loose objects (14) Windshield including one or more (48) Child safety seat (specify): of the following: front header, NONCONTACT INJURY (90) Fire in vehicle A (A1/A2)-pillar, instrument panel, (49) Other interior object (specify): (91) Flying glass mirror, or steering assembly (driver (92) Other noncontact injury source side only) (specify): (15) Windshield including one or more ROOF of the following: front header, (93) Air bag exhaust gases (50) Front header A (A1/A2)-pillar, instrument panel, or (97) injured, unknown source (51) Rear header mirror (passenger side only) (52) Roof left side rail (16) Driver side air bag compartment cover INJURY SOURCE CONFIDENCE (53) Roof right side rail (17) Passenger side air bag compartment cover LEVFI (54) Roof or convertible top (18) Windshield reinforced by exterior object (1) Certain (specify): **FLOOR** Probable (19) Other front object (specify): (56) Floor (including toe pan) (3) Possible (57) Floor or console mounted

- (9) Unknown

#### **DIRECT/INDIRECT INJURY**

- Direct contact injury
- Indirect contact injury (2)
- Noncontact injury (3)
- injured, unknown source

## OCCUPANT INJURY CLASSIFICATION

128

transmission lever, including

(59) Foot controls including parking

console

brake

REAR

Specific Anatomic Structure

(58) Parking brake handle

(60) Backlight (rear window)

#### **Body Region**

(23) Left B-pillar

Head Face

LEFT SIDE

(20) Left side interior surface,

(24) Other left pillar (specify):

(22) Left A (A1/A2)-pillar

(21) Left side hardware or armrest

excluding hardware or armrests

- (3) Neck
- 141 Thorax (5)
- Abdomen Spine
- (7) **Upper Extremity** (8)
- Lower Extremity (9)
- Unspecified

#### Type of Anatomic Structure

- (2) Vessels
- (3) Nerves
- (4) Organs (includes muscles/ ligaments)
- Skeletal (includes joints) (5) (6)
- Head LOC (9) Skin
- Whole Area

- Whole Area (02) Skin Abrasion
- Skin Contusion (06)
- Skin Laceration (08) Skin - Avulsion
- (10) Amoutation
- Burn
- (20) (30)
- Crush (40)
- Degloving (50) Injury - NFS
- (90)
- Trauma, other than mechanical

- Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness Concussion

- Cervical (04) Thoracic
- (06) Lumbar
- Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02

#### Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

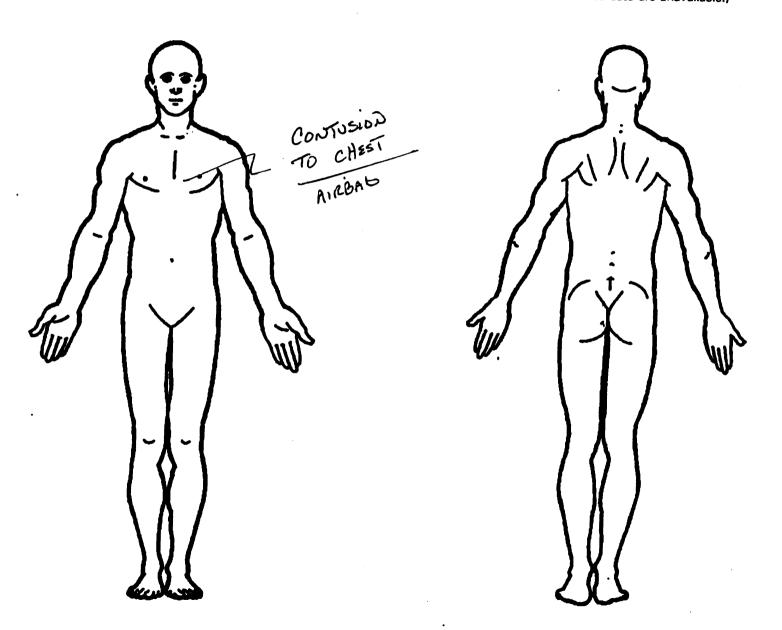
#### Abbreviated Injury Scale

- Minor injury Moderate injury (1)
- (2) (3)
- Serious injury Severe injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity

#### Aspect

- Right Left
- (3)
- Bilateral
- (4) Central (5) Anterior
- (6) Posterior
- Superior
- (8) Interior
- (9) Unknown
- Whole region

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

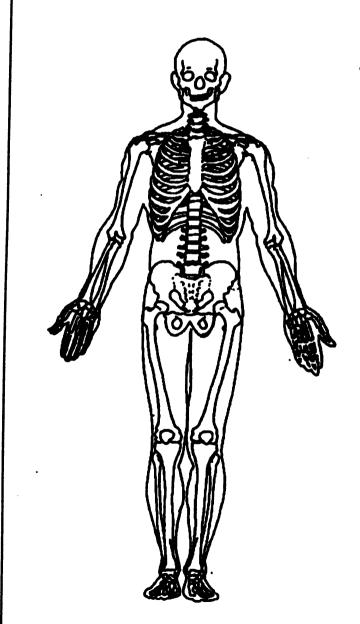


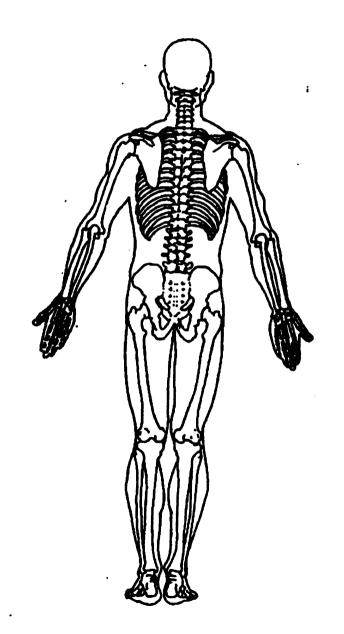
129

Page .

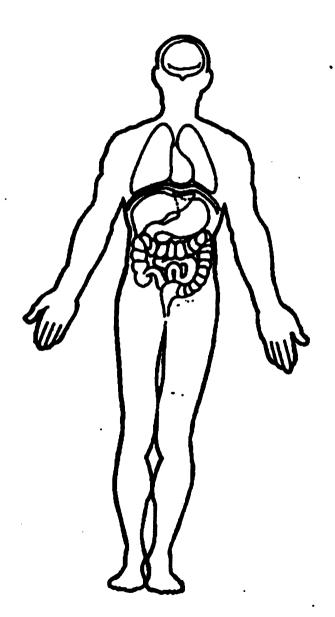
Restrained	,

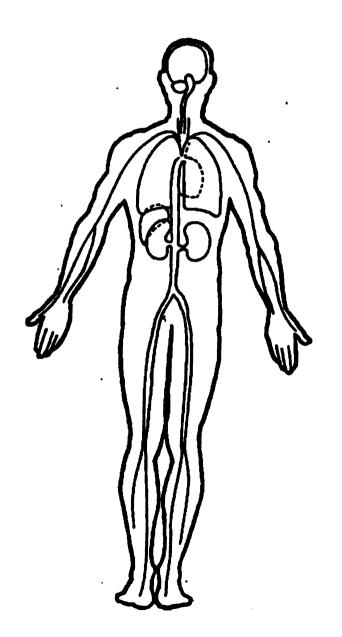
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





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BEST AVAILABLE COPY

0.3. Department or Transportation	BEST AVAILABLE COPY Form Approved
National Highway Traffic Safety OCCUPANT A	O.M.B. No. 2127-0021 NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DSI -94-AB-20	10. Occupant's Seat Position  Front Seat
3. Vehicle Number	(11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown  4	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area
8. Occupant's Weight Code actual weight to the nearest	(98) Other seat (specify):
kilogram. (999) Unknown \$\display \frac{3}{5} \text{ pounds X .4536 = } \display \frac{1}{6} \text{ kilograms}\$	11. Occupant's Posture (0) Normal posture  Abnormal posture (1) Knowling and the state of the st
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	(1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

	EJE	CTION/E	NTRAPMENT
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	ф	15. Medium Status (Immediately Prior To Impact) $\phi$ (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):	ф 	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
()	Ejection Medium  O) No ejection  1) Door/hatch/tailgate  2) Nonfixed roof structure  3) Fixed glazing  4) Nonfixed glazing (specify):  5) Integral structure  8) Other medium (specify):	<b>.</b>	
		•	

		RESTRAINTS	SYS	TEM E	VA	LUATION	
17	7. Ma (0) (1) (2) (3) (4) (5)	anual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt	4	21. /	Air 0) 1) V <i>or</i>	Bag System Availability/Function Not equipped/not available Air bag  a-functional Air bag disconnected (specify):	
	(6)	egral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)		()	3) 9)	Air bag not reinstalled Unknown	
		Other belt (specify):		22 4	\ir '	Bag System Deployment	
	(9)	Unknown		1 ((	0)	Not equipped/not available Air bag deployed during accident (as a result of impact)	
18	(01	inual (Active) Belt System Use  )) None used, not available, or belt removed/destroyed  ) Inoperative (specify):	<del>-</del>	(3	3)	Air bag deployed inadvertently just prior to accident Air bag deployed, accident sequence undetermined Nondeployed	
	(03 (04 (05 (08	Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify):		(8	5) 3)	Unknown if deployed Air bag deployed as a result of a noncollisi event during accident sequence (e.g., fire, explosion, electrical) Unknown	on
	(13 (14 (15 (18	Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknow Other belt used with child safety seat (specify): Unknown if belt used	vn	23. A S (0 (1	re yst )) }	There Indications of Air Bag em Failure? Not equipped/not available No Yes (specify):	1
19.	(1)	per Use of Manual (Active) Belts None used or not available Belt used properly Belt used properly with child safety seat	b_	·		Unknown  : See Variables 44 through 48 (Page 5) for Information on Automatic Belts	
	Belt (3) (4) (5) (6) (7)	Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen Lap belt or lap and shoulder belt used improperly with child safety seat (specify):		(0 (1 (2 (3)	)   )   ) (	e Reported Restraint Use None used Police did not indicate restraint use Shoulder belt Lap belt Lap and shoulder belt	<u>\$</u>
		Other improper use of manual belt system (specify):		(5) (6)	) E	Belt used, type not specified Child safety seat Other or automatic restraint (specify):	
		Unknown		(8)	F	Restrained, type unknown Police indicated "unknown"	
	(0) (1) (2) (3) (4) (5) (6)	nual (Active) Belt Failure Modes ng Accident No manual belt used No manual belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify):  Broken retractor Combination of above (specify):	2_		•	Indicated GITKIIOWII	
		Unknown					
	•		1				

LIEAD DECTRAIN		ge 4
	IT AND SEAT EVALUATION	
25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusio (specify):	
(9) Unknown	(7) Combination of above (specify):	
26. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify):  (10) Box mounted seat (i.e., van type) (99) Unknown	(8) Other (specify):  (9) Unknown	

# CHILD SAFETY SEAT 28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 30. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 31. Child Safety Seat Harness Usage \$ \$ \$ \$ \$ \$ 32. Child Safety Seat Shield Usage
  - 33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33.

Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether

added, not used (02) After market harness/shield/tether used

(00) No child safety seat

- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	ray
34. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	38. Working Days Lost  Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown  STOP - GO TO VARIABLE 44 ON PAGE 7
35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER  39. Time to Death  Code number of hours from time of
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify):	accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
36. Type Of Medical Facility (for Initial Treatment)  (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):  (9) Unknown	40. 1st Medically Reported Cause of Death  41. 2nd Medically Reported Cause of Death  42. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  (00) Not fatal or no additional causes (96) Mode of death given but specific
37. Hospital Stay (00) Not Hospitalized ——Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	injuries are not linked to cause of death. (specify):  (97) Other result (includes fatal ruled disease) (specify):  (99) Unknown
	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

AUTOMATIC BELT SYSTEM	Page 7
44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  **Non-functional** (4) Automatic belts destroyed or rendered inoperative (9) Unknown  45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown  49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
47. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify): [ ] Unknown if belt used
ARE ALL APPLICABLE MEDICAL RECORDS WITH INITIAL SUBMISSION?	S INCLUDED NO[] YES[]
UPDATE CANDIDATE?	NO[] YES[]

# STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER

### TRAUMA DATA

50. Glasgow Coma Scale (GCS) Score (at Medical Facility)

(00) Not injured

(01) Injured - not treated at medical facility

(02) No GCS Score at medical facility

(03-15) Code the actual value of the initial GCS Score recorded at medical facility.

(97) Injured, details unknown

(99) Unknown if injured

51. Was the Occupant Given Blood?

(1) No - blood not given

(2) Yes - blood given (specify units):

(9) Unknown if blood given

52. Arterial Blood Gases (ABG) - HCO3

(00) Not injured

(01) Injured, ABGs not measured or reported

(02-50) Code the actual value of theHCO3 (96) ABGs reported , HCO3 unknown (97) Injured, details unknown (99) Unknown if injured

# BELT USE DETERMINATION

53. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed

or rendered inoperative Vehicle inspection

Official injury data

Driver/occupant interview

Other (specify):

Unknown if belt used



#### U.S. Department of Transportation

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety Administration

#### **OCCUPANT INJURY FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

. Primary Sampling Unit Number

3. Vehicle Number

d 1

- 2. Case Number Stratum DST-94-AB-20
- 4. Occupant Number

02

#### **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				A.I.S 9	90		- 🐨		Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st								12. <u>5</u>			94.00 - 1 - 1
2nd	16.3	17. 2	18.5 1	. <u>14</u>	20. ф.	21	22. <u>B</u>	23. 1 1	24. <u>Z</u> :	25	28. 44
3rd	27.3	28. <u>Ə</u>	29. <u>9</u> 30	o. <u>φ</u> 2	31. ф.Д.	32. <u> </u>	зз. ф	34. <u>4≤</u>	35. <u>Z</u>	36	37. 女山
. Ith	38. 🔁	39. <u>Z</u>	40. <b>4</b> 4	1.32	42. <u>ф4</u>	43. <u> </u>	44. <u>B</u>	45. <u>l l</u>	46. <u>2</u>	47. <u> </u>	48. <b> </b>
5th	49. 3	50	51. <u>^</u> 5	2. 1/2 6	53. фф	54. <u>/</u>	55. 5	56. <u>]                                   </u>	57. <u>Z</u>	58. 👤	59. <u>Ú</u> ¢
6th	60. <u>3</u>	61. <u>2</u>	62. <u>9</u> 6	з.ф.С	64. 62	65. <u>\</u>	66.4	67. <u>1 1</u>	68. <u>2</u>	69. 👤	70. <del>4. 4</del> .
7th	71, 3	72. <u>J</u>	73. 9 7	طٍ ф.₄	75. <u>4</u> 0	76. <u>l</u>	77. <u>B</u>	78. <u>L L</u>	79. 2	80	81. ф.ф
8th	82.3	83. <u>3</u>	84. <u>9</u> 8	15. <u>6.4</u>	86. ф.2	87	88. 🕢	89. <u>45</u>	90. 2	91. <u>l</u>	92. <u>4</u> 4
9th	93. <u>3</u>	94. <u>l</u>	95. <u>(</u> )	16.¢þ	97. <b>ф</b> <u>2</u>	98	99. <u>2</u>	100. <u>5ф</u>	101. 2 1	02. <u>)</u> 1	03. <u>p</u> 4
1 Ot	h 104. <u>3</u>	105	106. <u> </u> 10	or.ф <u>ь</u>	108.фф	109. [	110.2	ш. <u>5ф</u>	112. 2 1	13. 1	14. 女女

#### **OFFICIAL** (1) Autopsy records with or without hospital/ medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNDEFICIAL (5) Lay coroner report (6) E.M.S. personnel (7) Interviewed (8) Other source (specify): (9) Police

#### **INJURY SOURCE** FRONT

- (01) Windshield
- (O2) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

#### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- Lait side window glass or frame (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

#### RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

#### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

#### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

#### **FLOOR**

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

#### REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

#### EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antennal
- Other exterior surface or tires (specify):
- (68) Unknown exterior objects

#### **EXTERIOR OF OTHER MOTOR VEHICLE**

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- Windshield, roof rail, A-pillar (75)
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82)
- Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

#### OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass (92)
- Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

#### **INJURY SOURCE CONFIDENCE** LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

#### DIRECT/INDIRECT INJURY

- (1) Direct contact injury
- (2) Indirect contact injury (3)
- Noncontact injury Injured, unknown source

# OCCUPANT INJURY CLASSIFICATION

#### **Body Region**

- Head
- Face (3) Neck
- (4) (5) Thorax
- Abdomen (6) Spine
- (7) **Upper Extremity**
- Lower Extremity (8) Unspecified

## Type of Anatomic Structure

- (1) Whole Area
- 121 Vessels (3) Nerves
- (4) Organs (includes muscles/
- Skeletal (includes joints) Head LOC (5)
- (9)

#### Specific Anatomic Structure

- Whole Area (02) Skin Abrasion
- (04) Skin Contusion
- (06) Skin Laceration (08) Skin - Avulsion
- (10) Amputation
- Burn (20) (30) Crush
- 1401 Degloving
- (50) Injury - NFS (90) Trauma, other than mechanical
- Head LOC (02) Length of LOC
- (04, 06, 08) Level of Consciousness (10) Concussion

- (02) Cervical (04) Thoracic
- (06) Lumbar

# Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02

#### Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

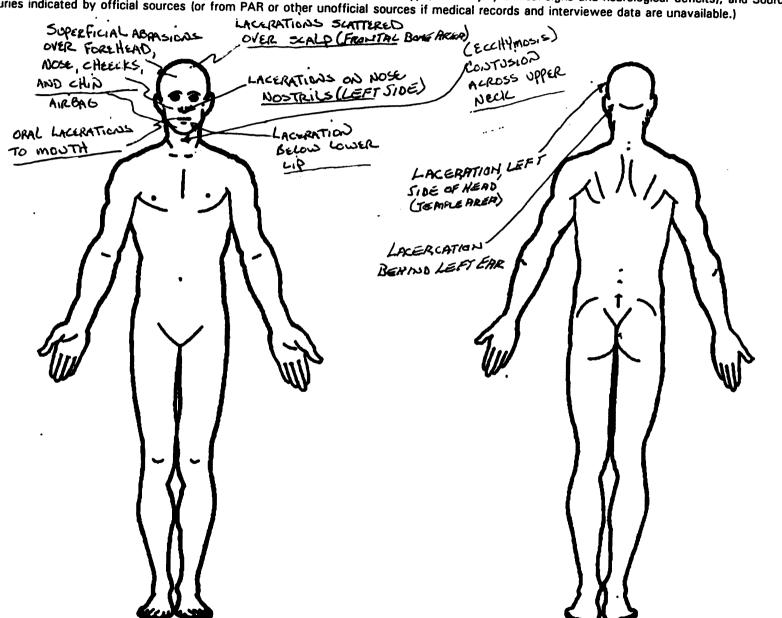
#### Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury (3)
- Serious injury (4)Severe injury
- Critical injury (6)
- Maximum (untreatable) (7) Injured, unknown severity

#### Aspect

- Right
- (2) (3) Left Bilateral
- Central
- (5) Anterior
- (6) **Posterior**
- (7) Superior Interior (8)
- (9) Unknown (0) Whole region

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

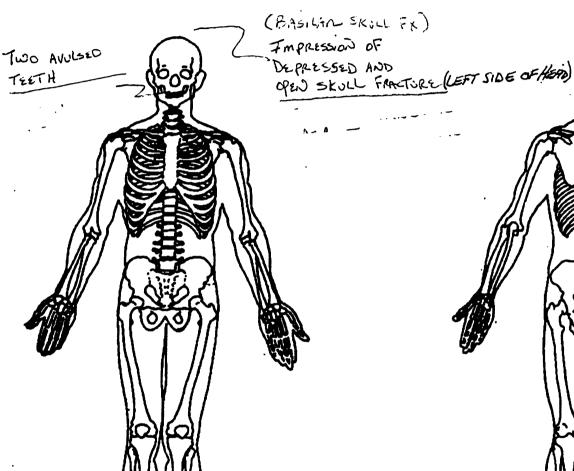


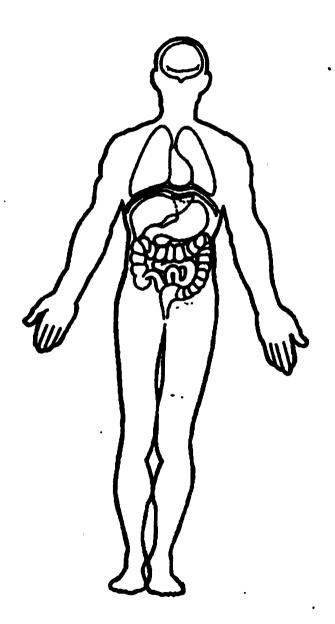
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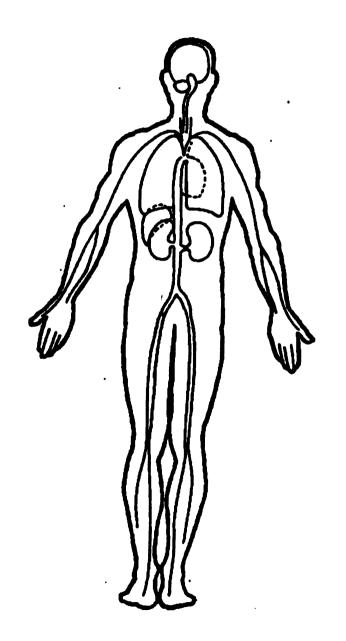
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Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are

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Form Approved

# OCCUPANT ASSESSMENT FORM NATIONAL ACCIDENT SAMPLING SYS

O.M.B. No. 2127-0021

	NATIONAL ACCIDENT SAMPLING SYSTEM
1. Primary Sampling Unit Number	OCCUPANT'S SEATING
	nt's Seat Position 3
3. Vehicle Number (11) Let	ft side
4. Occupant Number (12) Mid	
OCCUPANT'S CHARACTERISTICS (14) Ot	ner (specify): or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (21) Lef (22) Mic (23) Rig (97) 97 years and older (24) Ott	Seat it side iddle
6. Occupant's Sex (1) Male (2) Female (9) Unknown  (31) Lef (32) Mic (33) Rig (34) Oth (35) On	t side Idle
(45) On (58) inches X 2.54 = 147 centimeters (97) In o (98) Oth	t side Idle Int side
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown (99) Unknown (99) Unknown	
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown (2) Lying (3) Knee (4) Sittin occup (5) Sittin (6) Lying (7) Bracit of set	ling or standing on seat on or across seat ling, standing or sitting in front of seat g sideways or turned to talk with another pant or to look out a rear window g on a console back in a reclined seat position ng with feet or hands on a surface in front at r abnormal posture (specify):

		TEM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
	(8) Other belt (specify):	22. Air Bag System Deployment
: [	(9) Unknown	(0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact)
18.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	<ul> <li>(2) Air bag deployed inadvertently just prior to accident</li> <li>(3) Air bag deployed, accident sequence undetermined</li> </ul>
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	<ul> <li>(4) Nondeployed</li> <li>(5) Unknown if deployed</li> <li>(6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(9) Unknown</li> </ul>
	<ul> <li>(12) Shoulder belt used with child safety seat</li> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat (specify):</li> <li>(99) Unknown if belt used</li> </ul>	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify):
	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(9) Unknown  Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
(	Belt Used Improperly  (3) Shoulder belt worn under arm  (4) Shoulder belt worn behind back or seat  (5) Belt worn around more than one person  (6) Lap belt worn on abdomen  (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of manual belt system (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify):
	9) Unknown	(8) Restrained, type unknown (9) Police indicated "unknown"
	Manual (Active) Belt Failure Modes During Accident  O) No manual belt used  1) No manual belt failure(s)  2) Torn webbing (stretched webbing not included)  3) Broken buckle or latchplate  4) Upper anchorage separated  5) Other anchorage separated (specify):	(9) I dies indicated drikilowii
(7	6) Broken retractor 7) Combination of above (specify):	
	8) Other manual belt failure (specify):	
(3	9) Unknown	

				age
		HEAD RESTRAINT AN	D SEAT EVALUATION	
25.	at T (0) (1) (2) (3) (4) (5) (6) (8)	Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify):	<ul> <li>27. Seat Performance (this Occupant Position) <ul> <li>(0) Occupant not seated or no seat</li> <li>(1) No seat performance failure(s)</li> <li>(2) Seat adjusters failed</li> <li>(3) Seat back folding locks or "seat back" faile (specify): <ul> <li>(4) Seat track/anchors failed</li> <li>(5) Deformed by impact of occupant</li> <li>(6) Deformed by passenger compartment intrus (specify):</li> </ul> </li> </ul></li></ul>	
	(9)	Unknown	(7) Combination of above (specify):	
26.	Seat	Type (this Occupant Position)	(8) Other (specify):	
	(00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify):  Box mounted seat (i.e., van type) Unknown	(9) Unknown	
		•		
		•		
				ŀ

IN HIDY CONCECUENCES	Page
INJURY CONSEQUENCES	38. Working Days Lost
34. Injury Severity (Police Rating)  (0) 0 - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown  STOP - GO TO VARIABLE 44 ON PAGE 7
35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER  39. Time to Death
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify):  (9) Unknown	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
36. Type Of Medical Facility (for Initial Treatment)  (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):  (9) Unknown  37. Hospital Stay (00) Not Hospitalized  Code the number of days (up through 60)	40. 1st Medically Reported Cause of Death  41. 2nd Medically Reported Cause of Death  42. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death  (00) Not fatal or no additional causes  (96) Mode of death given but specific injuries are not linked to cause of death. (specify):  (97) Other result (includes fatal ruled disease) (specify):
that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	disease) (specify):  (99) Unknown  43. Number of Recorded Injuries for This Occupant  Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries  (97) Injured, details unknown  (99) Unknown if injured

AUTOMATIC BELT SYSTEM	rage
44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative)	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown  49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat
(specify):  (3) Automatic belt use unknown (9) Unknown  46. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	(2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
47. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of automatic belt system (specify): (9) Unknown	Check the Primary Source Used In Determining Belt Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify): [ ] Unknown if belt used
ARE ALL APPLICABLE MEDICAL RECORD WITH INITIAL SUBMISSION?	OS INCLUDED NO[] YES []
UPDATE CANDIDATE?	NO [ ] YES [ ]

## STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER

### TRAUMA DATA

- 50. Glasgow Coma Scale (GCS) Score (at Medical Facility)

- (00) Not injured
- (01) Injured not treated at medical facility
- (02) No GCS Score at medical facility
- (03-15) Code the actual value of the initial GCS Score recorded at medical facility.
- (97) Injured, details unknown
- (99) Unknown if injured
- 51. Was the Occupant Given Blood?
  - (1) No blood not given (2) Yes - blood given
  - (specify units): (9) Unknown if blood given
- 52. Arterial Blood Gases (ABG) HCO<sub>3</sub>



- (00) Not injured
- (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO3
- (96) ABGs reported, HCO3 unknown
- (97) Injured, details unknown
- (99) Unknown if injured

# BELT USE DETERMINATION

- 53. Primary Source of Belt Use Determination
  - Not equipped/not available/destroyed or rendered inoperative
  - (1)Vehicle inspection
  - Official injury data
  - Driver/occupant interview
  - (8)Other (specify):
  - (9) Unknown if belt used

Form Approved O.M.B. No. 2127-0021

**National Highway Traffic Safety** 

# **OCCUPANT INJURY FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum DSI -94- AB-24

4. Occupant Number

### INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				A.I.S 9	0				laine.		
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity		Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
1st	<b>5</b> . <u>9</u>	6. <u>B</u>	7. 9	.φ2	9. φ <u>"</u>	10. <u>L</u>	11. 4	12. <u>56</u>	13. <u>l</u> 1	4.4.1	<u>5.фф</u>
2nd	16. 9	17.8 1	8. <u> </u>	44	20. <u>ф 2</u>	21. <u>\</u>	22. <u>9</u>	23. <u>56</u>	24. ] 2	5 2	<u>s.фф</u>
3rd	27 2	28 2	930		31	32	<b>33.</b>	34	35 3	6 3	7
4th	38 3	39 4	041		12	43	44	45	464	74	8
5th	49 5	50 5	1 52	•	i3	54.	55	56	<b>57.</b> 5	8 5:	3. <u> </u>
6th	606	i1 6	2 63.	•	4	65	66	67	68 69	9 70	D
7th	71 7	<b>2</b> 7:	374.	7	5	78	77	78	7980	) 81	
8th	82 8	3 84	J 85.	8	6	3 <b>7.</b>	88. <u> </u>	89	90 91	92	
9th	93 94	4 95	· 96.	9 <sup>*</sup>	7.	98	9	<b>00.</b>	101 102	103	
10th	104 108	5 106	107.	108	B 10	D9 11	101	11	112 113	114	·

#### SOURCE OF INJURY DATA OFFICIAL

- (1) Autopsy records with or without hospital/ medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency dinic

#### UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

#### **INJURY SOURCE**

#### **FRONT**

- (01) Windshield
- (Q2) Mirror
- (03) Survisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination
- of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header. A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header. A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (spacify):
- (19) Other front object (specify):

#### LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left piller (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-piller, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

#### RIGHT SIDE

- (30) Right side interior surface. excluding hardware or armrests
- (31) Right elde hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-piller
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof elde rail.
- (37) Other right side object (specify):
- (38) Right side window sill

#### INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

#### ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

#### **FLOOR**

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

#### REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

#### EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

#### **EXTERIOR OF OTHER MOTOR VEHICLE**

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (90) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

#### OTHER VEHICLE OR OBJECT IN THE ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

#### NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

#### **INJURY SOURCE CONFIDENCE LEVEL** Certain

- (1)
- (2) Probable
- (3) Possible
- (9) Unknown

#### DIRECT/INDIRECT INJURY

- Direct contact injury (1)
- 121 Indirect contact injury (3)
- Noncontact injury (7) Injured, unknown source

### OCCUPANT INJURY CLASSIFICATION

#### **Body Region**

- Head
- (2) Face 131
- Neck (4) Thorax
- (5) Abdomen 16 Spine
- 171 **Upper Extremity** (8) **Lower Extremity** Unspecified

## Type of Anatomic Structure

- Whole Area
- (2) Vessels 131 Nerves

(9)

- 4) Organs (includes muscles/ igaments)
- (5) Skeletal (includes joints) (6) Head - LOC
- (9) Skin

#### Specific Anatomic Structure

- Whole Area (02) Skin Abrasion (04) Skin Contusion
- (06) Skin Laceration
- Skin Avulsion
- (10) **Amputation** (20)Burn
- (30) Crush
- (40) Degloving
- (50) Injury - NFS Trauma, other than mechanical (90)
- Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness
- (10) Concussion

- (02) Cervical
- (04) Thoracic (06) Lumbar
- Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02

## Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02

To the extent possible, within the To the extent possible, within the organizational framework of the AIS, O0 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

#### Abbreviated injury Scale

- Minor injury
- Moderate injury (3) Serious injury
- 141 Severe injury
- (6) Critical injury Maximum (untreatable)
- (7) Injured, unknown severity

#### Aspect

- (2) Left

(6)

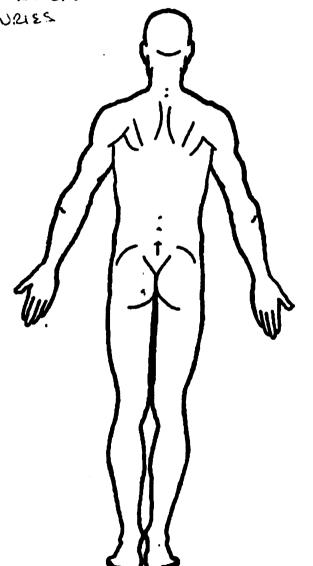
- (3) Bilateral
- (4) Central (5)Anterior
- (7) Superior Interior
- (9) Unknown
- (0) Whole region

Posterio

CODED PER PAR ONLY

DRIVER & EMERGENCY RECORD

INDICATED NO INJURIES CONTUSIONS ABRASIONS TO LEG(S)



BEST AVAILABLE COPY

# OFFICIAL INJURNATA — SKELETAL INJURIES

Restrained?

\_ No

\_\_ Y••

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Stood Alcohol Love (mg/dt)

844 --

Glasgow Come Scale Scare

GC88 - \_\_

Units of Blood

Units -

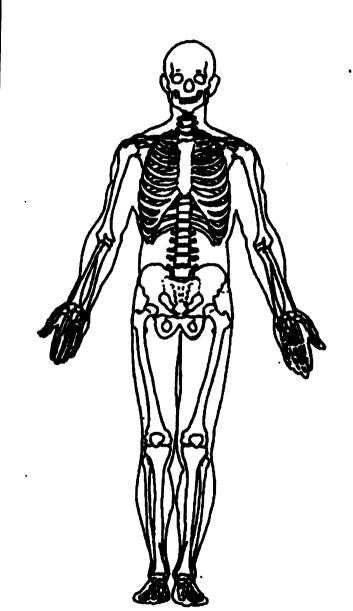
**Arterial Blood Gass** 

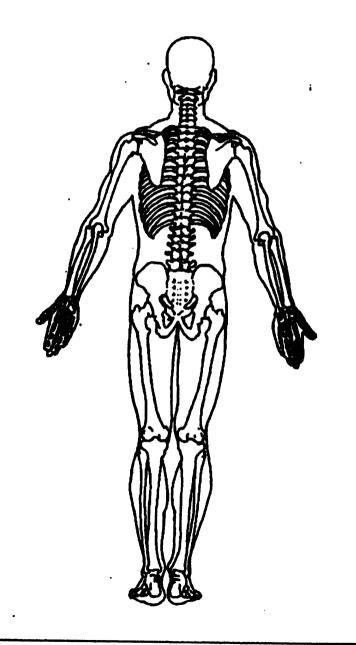
PH - \_\_\_\_

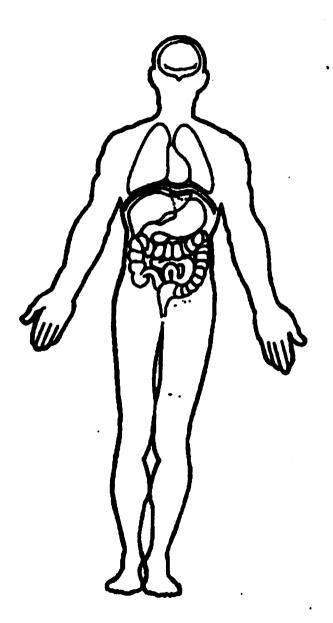
PO,- \_\_

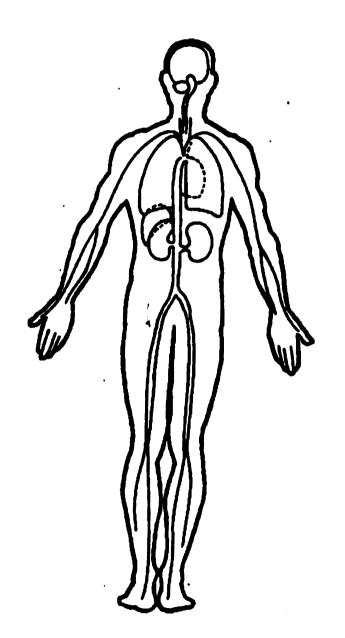
PCO, \_\_

HCO,









SSI

F21 HANTHACE CO

EHICLE FORM NATIONAL ACCIDENT SAMPLING SYST
11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown  Note: See variables 37 through 55 (Page 4) for information on Other Drugs  12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown  Source:
13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown  4  mph x 1.6093 =
15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):  (99) Unknown

# **CODES FOR BODY TYPE**

## CDS APPLICABLE VEHICLES

#### Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

#### Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

#### Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

#### Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

# Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

## Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

#### OTHER VEHICLES

#### Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

### Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

# Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

#### Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

National Accident Sampling System-Crashworthiness Date	A System: General Vehicle Form Page
16. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown  17. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	24. Rollover (0) No rollover (no overturning)  Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (specify):  (5) Rolloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown
VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19. Vehicle Curb Weight  Code weight to nearest 10 kilograms.  (045) Less than 450 kilograms (610) 6,100 kilograms or more (999) Unknown  3. 6 9 16 × .4536 = 1, 4 6 kgs  Source:  20. Vehicle Cargo Weight  Code weight to nearest 10 kilograms.  (000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown  16 × .4536 =kgs  RECONSTRUCTION DATA  21. Towed Trailing Unit (0) No towed unit	25. Front Override/Underride (this Vehicle)  26. Rear Override/Underride (this Vehicle)  (0) No override/underride, or not an end-to-end impact  Override (see specific CDC) (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):  Underride (see specific CDC) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):  (7) Medium/heavy truck or bus override (9) Unknown
(1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FOR
22. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
23. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): (9) Unknown	27. Heading Angle For This Vehicle 299 28. Heading Angle For Other Vehicle 199

...-

Care.	Configur-	ACCIDENT TYPES (Includes Intent)  BEST AVAILABLE COPY
	A. Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS
I. Single Driver	B. Left Roadside Departure	DRIVE OFF ROAD  CONTROL/ TRACTION LOSS  WITH VEH., PED., ANIM. OTHER  UNKNOWN  OFF CONTROL/ TRACTION LOSS  WITH VEH., PED., ANIM. OTHER  UNKNOWN  UNKNOWN
	C Forward Impact	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFICS SPECIFICS
Trafficway Direction	D Rear-End	20 22 24 26 28 30 (EACH • 32) (EACH • 33)  STOPPED SLOWER DECEL. 31 SPECIFICS SPECIFICS
II Sane Traf Same Dire	h Forward Impact F.	34 35 36 37 38 40 123 (EACH • 42) (EACH •
	Sideswipe Angle	44 45 45 45 (EACH • 48) (EACH • 49) SPECIFICS UNKNOWN
uni). Šē i	G Head-On	50 51 (EACH • 52) (EACH • 53)  LATERAL MOVE OTHER SPECIFICS UNKNOWN
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 59 60 61 IEACH • 62] [EACH • 62] [EACH • 62] [EACH • 63]  CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT OTHER UNKNOWN
Ħ	I. Sideswipe' Angle	65 (EACH • 66) (EACH • 67)  LATERAL MOVE . OTHER UNKNOWN  SPECIFICS SPECIFICS UNKNOWN
e Trafficway e Turning	J. Turn Across Path	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS  EPECIFICS SPECIFICS OTHER UNKNOWN
IV. Change Vehicle	K. Turn Into Path	76 78 81 (EACH • 84) (EACH • 85)
V Interacting Patha (Vehicle Damage)	L. Straight Paths	TURN INTO SAME DIRECTION  TURN INTO OPPOSITE DIRECTIONS  OTHER  UNKNOWN  (EACH • 90)  (EACH • 91)  SPECIFICS  OTHER  SPECIFICS  OTHER  SPECIFICS  OTHER  OTHER
VI. Miscel- lancous	M. Backing Eic.	92 93 CIT OTHER VEH. OR OBJECT  BACKING VEH.  98 Other Accident Type 99 Unknown Accident Type 00 No Impact

# 37. Police Reported Other Drug Presence (0) No other drug(s) present (1) Yes [other drug(s) present] (7) Not reported

- (8) No driver present
- (9) Unknown
- 38. Police Reported Drug Evaluation Classification (DEC) Test For Driver
  - (0) No DEC process available or given
  - (1) DEC process given, results known
  - (2) DEC process given, results unknown
  - (3) DEC process available, unknown if given
  - (8) No driver present
- 39. Other Drug Specimen Test Type For Driver
  - (0) No specimen test given
  - (1) Blood test
  - (2) Urine test
  - (3) Other specimen tests (specify):
  - (7) Unspecified specimen test
  - (8) No driver present
  - (9) Unknown if specimen test given

# DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER

	DEC	Specimen
	Test	Test
	Results	Results
Narcotic Drug	<b>40</b> . ф	41. <u>b</u>
Depressant Drug	42.	43. d
Stimulant Drug	44. ch	45. d
Hallucinogen Drug	46. (b)	47.
Cannabinoid Drug	48. d	49. 🕹
Phencyclidine (PCP)	50. d	51.
Inhalant Drug	52.	53.
Other Drug (Excluding	54. 1b	55. Ø
Nicotine, Aspirin, Alcohol,	4	. <u> </u>

#### **Codes For DEC Test Results**

**Drugs Administered Post-Crash)** 

- (0) No DEC test given
- (1) Passed DEC test
- (2) Failed DEC test
- (3) DEC test given-results unknown
- (8) No driver present
- (9) Unknown if DEC test given

## **Codes for Specimen Test Results**

- (0) No specimen test given
- (1) Drug not found in specimen
- (2) Drug found in specimen
- (7) Specimen test given, results unknown or not obtained
- (8) No driver present
- (9) Unknown if specimen test given

# CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
Alaman Watan	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
•	(63) Curb
Collision With Fixed Object	(64) Bridge
(41) Tree (≤ 10 cm in diameter)	~ (68) Other fixed object (specify):
(42) Tree (> 10 cm in diameter)	(99) Gaior fixed Object (specify).
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	(03) Olikilowii lixed object
• • • • • • • • • • • • • • • • • • • •	Callisian with Nantiwad Object
(45) Breakaway pole or post (any diameter)	Collision with Nonfixed Object
(+0) bloakaway pole of post (ally diameter)	(71) Motor vehicle not in-transport
Monhroekeyyay Dolo or Book	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 10 cm in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 10 cm but ≤ 30 cm in	(79) Object fell from vehicle in-transport
diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 30 cm in diameter)	the state of the s
(53) Pole or post (diameter unknown)	(89) Unknown nonfixed object
(54) Concrete traffic barrier	100) 0.1
The state of the s	(98) Other event (specify):
(55) Impact attenuator	
(56) Other traffic barrier (includes guardrail) (specify):	(99) Unknown event or object

# **OTHER DATA** 56. Driver's Zip Code (00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown 57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): (9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown **ROLLOVER DATA** If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type

60. Location of Rollover Initiation

(2) On shoulder—paved (3) On shoulder—unpaved

(4) On roadside or divided trafficway median

(O) No rollover (1) On roadway

(9) Unknown

- 61. Rollover Initiation Object Contacted 62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (O) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
  - (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis
    - (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction

#### PRECRASH DATA

- 64. Pre-Event Movement (Prior to Recognition of Critical Event)

(01) Going straight

63. Direction of Initial Roll

- (02) Slowing or stopping in traffic lane
- (03) Starting in traffic lane
- (04) Stopped in traffic lane
- (05) Passing or overtaking another vehicle
- (06) Disabled or parked in travel lane
- (07) Leaving a parking position
- (08) Entering a parking position
- (09) Turning right
- (10) Turning left
- (11) Making a U-turn
- (12) Backing up (other than for parking position)
- (13) Negotiating a curve
- (14) Changing lanes
- (15) Merging
- (16) Successful avoidance maneuver to a previous critical event
- (97) Other (specify):
- (98) No driver present
- (99) Unknown

#### PRECRASH DATA (Continued) 65. Critical Precrash Event Pedestrian or Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway This Vehicle Loss of Control Due To: (81) Pedestrian approaching roadway (01) Blow out or flat tire (82) Pedestrian—unknown location (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (specify): (84) Pedalcyclist or other nonmotorist approaching (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): up) (specify): (85) Pedalcyclist or other nonmotorist-unknown (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (08) Other cause of control loss (specify): (87) Animal in roadway (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal—unknown location (90) Object in roadway This Vehicle Traveling (91) Object approaching roadway (10) Over the lane line on left side of travel lane (92) Object—unknown location (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection For Corrective Actions Attempted see variable GV14 (19) Unknown travel direction (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped 66. Precrash Stability After Avoidance Maneuver (51) Traveling in same direction with lower speed (0) No avoidance maneuver (i.e., lower steady speed or decelerating) (1) Tracking (52) Traveling in same direction with higher speed (2) Skidding longitudinally-rotation less than 30 (53) Traveling in opposite direction (54) In crossover degrees (55) Backing (3) Skidding laterally-clockwise rotation (59) Unknown travel direction of other motor vehicle (4) Skidding laterally—counterclockwise rotation in lane (7) Other vehicle loss-of-control (specify): Other Motor Vehicle Encroaching Into Lane (8) No driver present (60) From adjacent lane (same direction) - over left (9) Precrash stability unknown lane line (61) From adjacent lane (same direction) - over right lane line 9\_ 67. Precrash Directional Consequences of (62) From opposite direction—over left lane line Avoidance Maneuver (Corrective Action) (63) From opposite direction—over right lane line (0) No avoidance maneuver (64) From parking lane (1) Vehicle stayed in travel lane where avoidance (65) From crossing street, turning into same maneuver was initiated direction (66) From crossing street, across path (2) Vehicle stayed on roadway but left travel lane (67) From crossing street, turning into opposite where avoidance maneuver was initiated (3) Vehicle stayed on roadway, not known if left (68) From crossing street, intended path not known travel lane where avoidance maneuver was (70) From driveway, turning into same direction initiated (71) From driveway, across path (4) Vehicle departed roadway (72) From driveway, turning into opposite direction (5) Avoidance maneuver initiated off roadway (73) From driveway, intended path not known (8) No driver present (74) From entrance to limited access highway (9) Directional consequences unknown (78) Encroachment by other vehicle-details unknown \*\*\* IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), \*\*\*

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\* THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

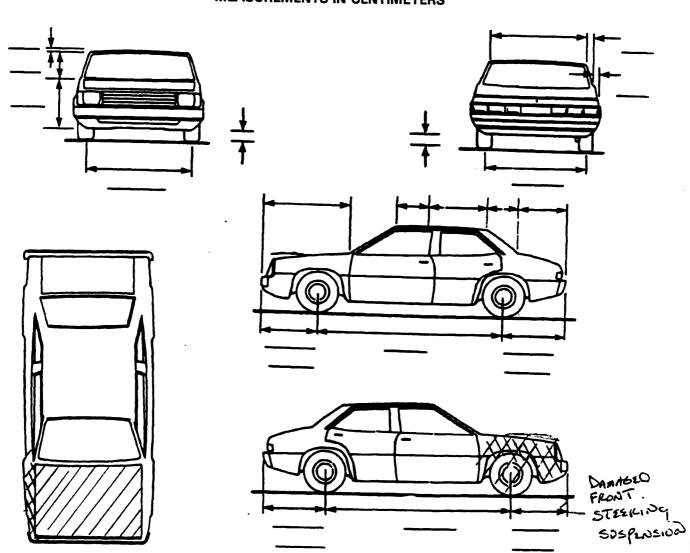
National Highway Traffic Safety Administration  EXTERIOR VEHICLE FORM NATIONAL CRASHWORTHIN	IESS DAT	A SYSTE
1. Primary Sampling Unit Number 3. Vehicle Number	(	<u> </u>
2. Case Number - Stratum DST. 94 - AB - 24		/
VEHICLE IDENTIFICATION		
VIN 1 727 KAZ X X X X X X Mode	Year _	3 d
Vehicle Make (specify): CHEWOLET N Vehicle Model (specify): MALIE.	<u> </u>	
LOCATOR		
Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner or an undamaged axle for side impacts.	for end	impacts
Specific Impact No. Location of Direct Damage Location of Fiel	d L	
PI RIGHT FRONT Q-PANEL SAME		
CRUSH PROFILE IN CENTIMETERS		
NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumpsill, etc.) and label adjustments (e.g., free space).	er, at sill	, above
to an analysis to patricines (e.g., mee space).		
Measure and document on the vehicle diagram the location of maximum crush.		
Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to from		
Free space value is defined as the distance between the baseline and the original body control the individual C locations. This may include the following: bumper lead, bumper taper, side taper, etc., Record the value for each C measurement.	ntour ta	ken at usion.
reasurement and maximum crush.		
Use as many lines/columns as necessary to describe each damage profile.  Specific Place of Impact Damage	<del></del>	
Impact C-Measurements Width Max Field C, C. C. C. C.	ł	T
(CDC) Crush	C <sub>e</sub>	ΦD
Number (CDC) Crush L 237.6	C <sub>6</sub>	QD +25.5
(ODO) Clusii	C <sub>6</sub>	₽0 + 25.5
型 NONE 257.6"	C <sub>6</sub>	PD +25.5
ONC ESTIMATED FROM POLICE	C <sub>6</sub>	₽0 +25.5
型 NONE 257.6"	C <sub>6</sub>	₽b + 25.5
PHOTOS ONLY.		
DI NONE 257.6'  CNC ESTIMATED FROM POLICE		ΦD + 25.5
PHOTOS ONLY.		

# ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	1 \$ 2 . Inches	s x 2.54 =	276 cm
Overall Length	192.7 inches	s x 2.54 =	489 cm
Maximum Width	$\underline{}$ $\underline{}$ 1.5 inches	s x 2.54 =	182 cm
Curb Weight	3.489 pounds	x .4536 =/_,	4 6 1 kg
Average Track	inches	0.54	cm
Front Overhang	inches	x 2.54 =	cm
Rear Overhang	inches	x 2.54 =	cm
Undeformed End Width	inches	x 2.54 =	cm
Engine Size: cyl./displ.	cc	x .001 = V6	L
	CID	x .0164 =	L

#### VEHICLE DAMAGE SKETCH TIRE-WHEEL DAMAGE **ORIGINAL SPECIFICATIONS** WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or 276 restricted deflated Wheelbase cm displaced rear axles only) Overall Length RF V RF / cm LF ± LF 7 Maximum Width 102 cm RR ± RR LR ± Curb Weight 1401 kg Within ± 5 degrees Average Track cm (1) Yes (2) No (8) NA (9) Unk. Front Overhang **DRIVE WHEELS** cm Rear Overhang cm ☐ FWD 対RWD ☐ 4WD TYPE OF TRANSMISSION Undeformed End Width -**UNKNOW?** cm **Approximate** ☐ Automatic □ Manual Engine Size: cyl./displ. 16 L Cargo Weight \_kg

#### **MEASUREMENTS IN CENTIMETERS**



NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

	CDC WO	ORKSHEE	T
	CODES FOR OB	JECT CONT	ACTED
(01-30	) — Vehicle Number		Fence
Nonco	llision		Wall
-	Overturn — rollover		Building
(31)	Fire or explosion		Ditch or culvert
	Jacknife		Ground
		(62)	Fire hydrant
(34)	Other intraunit damage (specify):		Curb
/25\	Noncelliation to the	(64)	Bridge
(30)	Noncollision injury	(68)	Other fixed object (specify):
(30)	Other noncollision (specify):		
(20)	N	(69)	Unknown fixed object
(39)	Noncollision — details unknown	~ <b>v</b>	
Calliaia	- 14 <i>th</i> = 1.01.	Collisio	n with Nonfixed Object
COIIISIO	n With Fixed Object	(71)	Motor vehicle not in-transport
(41)	Tree (≤ 10 cm in diameter)	(72)	Pedestrian
(42)	Tree (> 10 cm in diameter)	(73)	Cyclist or cycle
	Shrubbery or bush	(74)	Other nonmotorist or conveyance
(44)	Embankment		The second of th
	<b>B</b> .	(75)	Vehicle occupant
(45)	Breakaway pole or post (any diameter)	(76)	Animal
		(77)	Train
Nonbre	akaway Pole or Post	(78)	Trailer, disconnected in transport
(50)	Pole or post (≤ 10 cm in diameter)	(79)	Object fell from vehicle in-transport
(51)	Pole or post (> 10 cm but ≤ 30 cm in	(88)	Other nonfixed object (specify):
	diameter)	,,	o the memined object (specify).
(52)	Pole or post (> 30 cm in diameter)	(89)	Unknown nonfixed object
(53)	Pole or post (diameter unknown)	,,	ommount normixed object
		(98)	Other event (specify):
	Concrete traffic barrier	1007	outer event (specify).
(55)	Impact attenuator	(99)	Unknown event or object
(56)	Other traffic barrier (includes guardrail)	(55)	Chancetti event of object
	(specify):		
	DEFORMATION CLASSIFIC	ATION BY	EVENT NUMBER
			(4) (5)
Accident	(1) (2)	9	(4) (5) Specific Specific (6)
Event	Direction Incremental	<i>'</i> ^ .	-F obsenie (0)

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
41	#1	$\phi \bullet \phi$	中中	<u>.</u> <u>R</u>	_F	٤	W	ф <u>2</u>
<del></del>						<del></del>		
							********	
			<del></del>					
								·

# COLLISION DEFORMATION CLASSIFICATION

HIGHEST DELTA "V"

Accident
Event
Sequence
Number

Object Contacted

(1)(2)Direction of Force

(3) Deformation Location

(4) Longitudinal or Lateral Location

(5) Vertical or Lateral Location

(6) Type of Damage Distribution

(7) Deformation Extent

6. <u>p. 2.</u> 7. <u>R. 8. F</u>

9. &

Second Highest Delta "V"

12.\_\_\_\_ 13.\_\_\_\_ 14.\_\_\_ 15.\_\_

16.\_\_\_ 17.\_\_\_ 18.\_\_\_

19.

# CRUSH PROFILE IN CENTIMETERS

The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)

HIGHEST DELTA "V"

C3

C<sub>4</sub>

C<sub>5</sub>

C.

22. ±D

Second Highest Delta "V"

C<sub>2</sub>

C3

C<sub>4</sub>

C<sub>5</sub>

C.

25. ±D

26. Are CDCs Documented

but Not Coded on The Automated File?

- (O) No
- (1) Yes

27. Researcher's Assessment of Vehicle Disposition

- (0) Not towed due to
- vehicle damage
- (1) Towed due to vehicle damage
- (9) Unknown

28. Original Wheelbase

Code to the nearest centimeter

(999) Unknown

108.7 inches x 2.54 = 2.76 centimeters

9. Is This A Multi-Stage Mar	ufactured Vehicle	<u>\$</u>	34. Fuel Tank-1 Location
And/Or A Certified Altered (0) No post manufacturer	Venicle?	(	_
(1) Yes - post manufactur	'er modifications		35. Fuel Tank-2 Location
(specify):	or modifications		(0) No fuel tank
			(1) Aft of center of the rear wheels (rear axle) centered
(Include photograph o	CERTIFICATION		(2) Aft of center of the rear wheels (rear axle) le
PLACARD in case reports (9) Unknown if vehicle is	ort)		(3) Aft of center of the rear wheels (rear axle) right side
			(4) Forward of center of the rear wheels (rear axle) centered
O. Fire Occurrence O) No fire		1	(5) Forward of center of the rear wheels (rear
		1	<ul> <li>axle) left side</li> <li>(6) Forward of center of the rear wheels (rear</li> </ul>
Yes, fire occurred			axle) right side
(1) Minor			(7) Over center of the rear wheels (rear axle)
(2) Major (9) Unknown			(8) Other (specify):
,			(9) Unknown
1. Origin of Fire		4	
(O) No fire		1	36. Fuel Tank-1 Filler Cap Location
(1) Vehicle exterior (front,	side, back, top)		7
(2) Exhaust system		į	37. Fuel Tank-2 Filler Cap Location
(3) Fuel tank (and other fu	el retention	i	(0) No fuel tank
system parts)		ł	(1) On back plane
(4) Engine compartment		ļ	(2) Aft of center of the rear wheels (rear axle) or
(5) Cargo/trunk compartm	ent	ļ	left side plane
(6) Instrument panel			(3) Aft of center of the rear wheels (rear axle) or
(7) Passenger compartmer	t area	- 1	right side plane
(8) Other location (specify	):	I	(4) Forward of center of the rear wheels (rear
(9) Unknown		i	axle) on left side plane (5) Forward of center of the rear wheels (rear
÷	•		axle) on right side plane
. Type of Fuel Tank-1	_	9	(6) Over the center of the rear wheels (rear axle) on left side plane
3. Type of Fuel Tank-2		1	(7) Over the center of the rear wheels (rear axle)
		$\mathcal{L}$	on right side plane
(0) No fuel tank (electrical	vehicle)	' [	(8) Other (specify):
(1) Metallic (2) Non-metallic (9) Unknown	•		(9) Unknown
			38. Fuel Tank-1 Damage
			39. Fuel Tank-2 Damage
		- 1	(0) No fuel tank
		- 1	(1) No damage to fuel tank
		j	(2) Deformed, no seam failure
		I	(3) Deformed, with a seam failure
		1	(4) Punctured
	•	- 1	(5) Lacerated (ripped)
			(6) Abraded (scraped)
		1	(7) Filler neck separation from the fuel tank
			(8) Other damage (specify):
		1	(9) Unknown

			1		· uge
40.	. Location of Fuel System-1 Leakage	9	44. Is T	This Vehicle Equipped With More Than	\$
41.	. Location of Fuel System-2 Leakage	ф	Iwo	o Fuel Tanks? No (one or two tanks only)	-
	(0) No fuel tank	+	100	140 (One of two tanks only)	
	(1) No fuel leakage	,	Yes	s - More Than Two Tanks	
	2: 4 000	į		Yes no damage to any tank or filler	
	Primary Area Of Leakage	į	i	cap and <u>no fuel system</u> leakage	
	(2) Tank (3) Filler neck	,	(2)	Yes no damage to any tank or filler	
	(4) Cap	,	1	cap but there is fuel system leakage	
	(5) Lines/pump/filter	,	1	(specify leakage location):	
	(6) Vent/emission recovery	,	1 ,2		
	(8) Other (specify):	,	(3)	Yes damage to an additional tank or	
	tot outer tepconiti	,	ĺ	filler cap and there is fuel system leakage	2
-	(9) Unknown	/		(specify the following):	
		,	1	Type of tank	
		- 1	1	I GIIK IUCGUUII	
42.	Fuel Type-1	991	1	Tank damage	
_		++1	1	Tank damage	
43.	Fuel Type-2	m d	1	LOCATION OF IBAKAGE	
		4-1	(9)	Type of fuel	
	Single Fuel Type	,	1		
	(00) No fuel tank (01) Gasoline	J	<del></del>		
	(O1) Gasoline (O2) Diesel	1	l .	_	
	(02) Diesei (03) CNG (Compressed Natural Gas)	1	ł –	COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also	1	i		
	known as Propane	1	ı —		
	(05) LNG (Liquid Natural Gas)	J	i .		_
	(06) Methanol (M100 or M85)	1	ı —		
	(07) Ethanol (E100 or E85)	,	ı		
	(08) Other (Hydrogen or others) (specify):		, —		_
	Electric Powered or Electric/Solar	J	i		_
a a	Powered Vehicles	1			_
	(10) Lead Acid Battery	1			
	(11) Nickel-Iron Battery		-		
,	(12) Nickel-Cadmium Battery				
,	(13) Sodium Metal Chloride Battery	[			-
,	(14) Sodium Sulfur Battery	]			
•	(18) Other (Specify):				-
(	(98) Other Hybrid (specify):				-
í	(99) Unknown fuel type		<del></del>		-
	<del></del>	-			- 1
	* STOP: IE THE CDS APPLICABLE VE				
* * *	/ CTAD, IE TUE CDC ADDITAAN				,

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED AND WAS NOT AN AOPS \*\*\*
(I.E., GV09=0 OR 9 AND GV36=0), DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

National Highway Traffic Safety	OCCUPANT ASS	SESSMENT FORM DEST AVAILABLE COPY 21
1. Primary Sampling Unit Nun		CRASHWORTHINESS DATA SYSTEM  OCCUPANT'S SEATING
		10. Occupant's Seat Position
2. Case Number - Stratum	DSI-94-AB-26	Front Seat
3. Vehicle Number	<u> </u>	(11) Left side (12) Middle
4. Occupant Number		(13) Right side (14) Other (specify):
OCCUPANT'S CHAP	RACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of (00) Less than one year old (97) 97 years and older (99) Unknown	accident. I (specify by month):	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	2	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the ne centimeter. (999) Unknowninches X 2.54 =		Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
		(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
<ol> <li>Occupant's Weight         Code actual weight to the new kilogram.         (999) Unknown     </li> </ol>	earest $\frac{999}{}$	11. Occupant's Posture (0) Normal posture
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	kilograms	Abnormal posture  (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

#### **EJECTION/ENTRAPMENT** 12. Ejection 15. Medium Status (Immediately Prior To Impact) \_\_\_\_\_\_\_ (0) No ejection (0) No ejection (1) Complete ejection (1) Open (2) Partial ejection (2) Closed (3) Ejection, unknown degree (3) Integral structure (9) Unknown (9) Unknown 13. Ejection Area 16. Entrapment (0) No ejection (NOTE: Entrapped means that part of the (1) Windshield person was in the vehicle and mechanically (2) Left front restrained; jammed doors and immobilizing (3) Right front injuries by themselves are not sufficient to (4) Left rear constitute entrapment.) (5) Right rear (0) Not entrapped (6) Rear (1) Entrapped (7) Roof (9) Unknown (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown

	RESTRAINT SY	STEM EVALUATION	
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled	4
	(6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(9) Unknown	
	(8) Other belt (specify):	22. Air Bag System Deployment	ф
18.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):  (02) Shoulder belt (03) Lap belt	<ul> <li>(0) Not equipped/not available</li> <li>(1) Air bag deployed during accident (as a result of impact)</li> <li>(2) Air bag deployed inadvertently just prior to accident</li> <li>(3) Air bag deployed, accident sequence undetermined</li> <li>(4) Nondeployed</li> <li>(5) Unknown if deployed</li> <li>(6) Air bag deployed as a result of a paper list.</li> </ul>	<del></del>
	(04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat	<ul> <li>(6) Air bag deployed as a result of a noncollisic event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(9) Unknown</li> </ul>	'n
	<ul> <li>(13) Lap belt used with child safety seat</li> <li>(14) Lap and shoulder belt used with child safety seat</li> <li>(15) Belt used with child safety seat—type unknown</li> <li>(18) Other belt used with child safety seat</li> <li>(specify):</li> <li>(99) Unknown if belt used</li> </ul>	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown	ф
	Proper Use of Manual (Active) Belts (O) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts	
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify):	4
20. (	Manual (Active) Belt Failure Modes  During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	(8) Restrained, type unknown (9) Police indicated "unknown"	
(	6) Broken retractor 7) Combination of above (specify):		
	8) Other manual belt failure (specify):		
(	9) Unknown		

mai Accident Sampling System-Crashworthiness Date		Page
HEAD RESTRAINT AN	D SEAT EVALUATION	
Head Restraint Type/Damage by Occupant at This Occupant Position  (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" fa (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrespecify):	•
Geat Type (this Occupant Position)  OO) Occupant not seated or no seat  O1) Bucket  O2) Bucket with folding back  O3) Bench  O4) Bench with separate back cushions  O5) Bench with folding back(s)  O6) Split bench with separate back cushions  O7) Split bench with folding back(s)  O8) Pedestal (i.e., column supported)  O9) Other seat type (specify):  10) Box mounted seat (i.e., van type)  Unknown	(8) Other (specify):  (9) Unknown	

#### CHILD SAFETY SEAT 28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 30. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

31. Child Safety Seat Harness Usage

32. Child Safety Seat Shield Usage

33. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA31-OA33.
(00) No child safety seat

Not Designed With Harness/Shield/Tether

Not Designed With Harness/Shield/Tether
(01) After market harness/shield/tether
added, not used
(02) After market harness/shield/tether used
(03) Child safety seat used, but no after market
harness/shield/tether added
(09) Unknown if harness/shield/tether
added or used

Designed With Harness/Shield/Tether
(11) Harness/shield/tether not used
(12) Harness/shield/tether used
(19) Unknown if harness/shield/tether used
Unknown If Designed With Harness/Shield/Tether
(21) Harness/shield/tether not used
(22) Harness/shield/tether used
(29) Unknown if harness/shield/tether used

	INJURY CONSEQUENCES			_
34.	Injury Severity (Police Rating)	1	38. Working Days LostCode the number of days (up through 60) that the occupant	99
	(0) O - No injury		lost from work due to the accident	
	(1) C - Possible injury		(00) No working days lost	
	(2) B - Nonincapacitating injury		(61) 61 days or more	
	(3) A - Incapacitating injury		(62) Fatally injured	
	(4) K - Killed		(97) Not working prior to accident (99) Unknown	
	(5) U - Injury, severity unknown		(39) Unknown	
	(6) Died prior to accident (9) Unknown			***************************************
	(3) Olikhowii		STOP - GO TO VARIABLE 44 ON PA	GF 7
		0		
35.	Treatment - Mortality	9	VARIABLES 39 THROUGH 43 ARE	
	(0) No treatment		GOMPLETED BY THE ZONE CENTER	
	(1) Fatal			***************************************
	(2) Fatal - ruled disease (specify):		20 Time 5	f
			39. Time to Death	$\Phi \Phi$
		•	Code number of hours from time o	f J
	Nonfatal		accident to time of death up through 24	
	(3) Hospitalization		hours. If time of death is greater than 2	4
	(4) Transported and released		hours, code number of days. (Note: 1 d 31, 2 days = 32, n days = 30 + n $\mu$	lay =
	(5) Treatment at scene - nontransported		through 30 days = $60$ )	ıp
	(6) Treatment later		(00) Not fatal	
	(8) Treatment - other (specify):		(96) Fatal - ruled disease	
	(9) Unknown		(99) Unknown	
	(O) CHRIDWII			
36.	Type Of Medical Facility (for Initial Treatme	nt) 9	40. 1st Medically Reported Cause of Death	фф
	(0) Not treated at a medical facility		A1 2nd Medicelly Descript Co	, ,
	(1) Trauma center		41. 2nd Medically Reported Cause of Death	44
	(2) Hospital		42. 3rd Medically Reported Cause of Death	i i
	(3) Medical clinic	Ī	Code the Occupant Injury from line	<del></del>
	(4) Physician's office		number(s) for the medically reported	. 1
	(5) Treatment later at medical facility (8) Other (specify):		injury(s) which reportedly contributed to	
	to/ Other (specify):		this occupant's death	
	(9) Unknown	l	(00) Not fatal or no additional causes	
	· ·	1	(96) Mode of death given but specific	
	,		injuries are not linked to cause	
37. I	Hospital Stay	99	of death. (specify):	
	(00) Not Hospitalized —	<u> </u>	1071	
	Code the number of days (up through	60)	(97) Other result (includes fatal ruled	
1	that the occupant stayed in hospital.	1	disease) (specify):	
(	(61) 61 days or more	į	(99) Unknown	
(	(99) Unknown	ļ	(39) OHKHOWH	
			43. Number of Recorded Injuries for	• -
	•	-	This Occupant	97
		ļ	Code the actual number of	<del></del>
		l	injuries recorded for this occupant.	
			(00) No recorded injuries	
			(97) Injured, details unknown	
			(99) Unknown if injured	
		ŀ		

	AUTOMATIC BELT SYSTEM	a System: Occupant Assessment Form	Page 7
	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  Automatic (Passive) Belt System Use	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not inc (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):	<u></u> #uded) -
	(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):	1
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	Check the Primary Source Used In Determinin	a Reit
	Proper Use of Automatic (Passive) Belt System  (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	Use.  [ ] Not equipped/not available/destroyed or rendered inoperative [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify): [ ] Unknown if belt used	a Deit
	ARE ALL APPLICABLE MEDICAL RECORD WITH INITIAL SUBMISSION?	OS INCLUDED NO / YES [ ]	
	UPDATE CANDIDATE?	NO 1 YES [ ]	

2

#### STOP - VARIABLES 50 THROUGH 53 ARE COMPLETED BY THE ZONE CENTER

#### TRAUMA DATA

- 50. Glasgow Coma Scale (GCS) Score (at Medical Facility)
- 97

- (00) Not injured
- (01) Injured not treated at medical facility
- (02) No GCS Score at medical facility
- (03-15) Code the actual value of the initial GCS Score recorded at medical facility.
- (97) Injured, details unknown
- (99) Unknown if injured
- 51. Was the Occupant Given Blood?
  - (1) No blood not given
  - (2) Yes blood given (specify units):
  - (9) Unknown if blood given
- 52. Arterial Blood Gases (ABG) HCO<sub>3</sub>

97

- (00) Not injured
- (01) Injured, ABGs not measured or reported
- (02-50) Code the actual value of theHCO3
- (96) ABGs reported, HCO3 unknown
- (97) Injured, details unknown
- (99) Unknown if injured

#### BELT USE DETERMINATION

- 53. Primary Source of Belt Use Determination
  - (0) Not equipped/not available/destroyed or rendered inoperative
  - (1) Vehicle inspection
  - (2) Official injury data
  - (3) Driver/occupant interview
  - (8) Other (specify):
  - (9) Unknown if belt used

SUMMARY OF EDCRASH RESULTS

I . User: NHTSA #7

S/N: Version: 4.61

Date: 1995 DSI-94-AB-20

MESSAGES:

NO MESSAGES

#### VEHICLE # 1

IMPACT SPEED mph		SI	PEED CHAI	NGE	BASIS FOR	
FWD	LAT	TOTAL	LONG.   LATERAL		RESULTS	
N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND CONSERVATION OF LINEAR MOMENTUM	
I/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND DAMAGE	
		8.3	-8.1	1.4	DAMAGE DATA ONLY	

#### VEHICLE # 2

IMPACT SPEED mph		SI	PEED CHA	NGE	BASIS FOR	
FWD	LAT	TOTAL	LONG.	LATERAL	RESULTS	
N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND CONSERVATION OF LINEAR MOMENTUM	
N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND DAMAGE	
		9.7	-4.8	-8.4	DAMAGE DATA ONLY	

### SUMMARY OF DAMAGE DATA (NOTE: '\*\*' indicates default value)

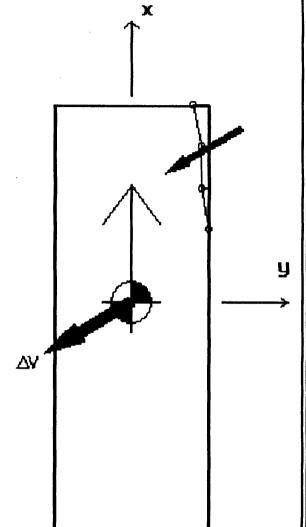
	Vehicle #1	Vehicle #2	
CLASS / STIFFNESS CATEGORIES	7 / 7	3 / 3	
WEIGHT	3777.0 lb	3223.0 lb	
CDC	12FYEW1	02RFEW2	
DAMAGE WIDTH	60.0 in	56.6 in	**
CRUSH DEPTH 1	2.6 iñ *	0.0 in	**
CRUSH DEPTH 2	4.9 in	3.8 in	**
CRUSH DEPTH 3	3.3 in	3.8 in	**
CRUSH DEPTH 4	7.3 in	7.6 in	**
CRUSH DEPTH 5	1.1 in		
CRUSH DEPTH 6	0.0 in		
DAMAGE MIDPOINT OFFSET	-11.0 in	62.0 in	**
DAMAGE ENERGY	15409.3 ft-lb	8940.9 ft-1b	
MAGNITUDE OF PRINCIPAL FORCE	50816.9 lb	25469.5 lb	
DIRECTION OF PRINCIPAL FORCE	-10.0 deg	60.0 deg	
MOMENT ARM OF PRINCIPAL FORCE	-2.4 in	-43.0 in	
DAMAGE CENTROID	-15.4 in	69.3 in	

## DIMENSIONAL, INERTIAL AND CRUSH STIFFNESS PROPERTIES (NOTE: \\*\*' indicates default value)

	Vehic	le #1		Vehic:	le #2	
CG TO FRONT AXLE	48.5	in	**	51.3	in	**
CG TO REAR AXLE	68.5	in	**	55.5	in	**
TRACKWIDTH	67.6	in	**	58.9	in	**
YAW MOMENT OF INERTIA	36294.0	lb-sec^2-in	**	27725.8	lb-sec^2-in	**
MASS	9.8	lb-sec^2/in		8.3	lb-sec^2/in	
BODY LENGTH FROM CG TO FROM	T 75.6	in	**	89.8	in	**
BODY LENGTH FROM CG TO REAR	-107.0	in	**	-106.4	in	**
BODY OVERALL WIDTH	79.0	in	**	72.6	in	**
CRUSH STIFFNESSES:	A	В		A	В	
	lb/in	lb/in^2		lb/in	lb/in^2	
	383.0 **	126.0 **		173.3 **	57.1 **	

# Vehicle No. 1 y

Vehicle No. 2



Veh #1 Veh #2 Delta-V (mph):

EDCRASH
Damage Profiles

X -8.1 -4.8 Y 1.4 -8.4 Tot 8.3 9.7

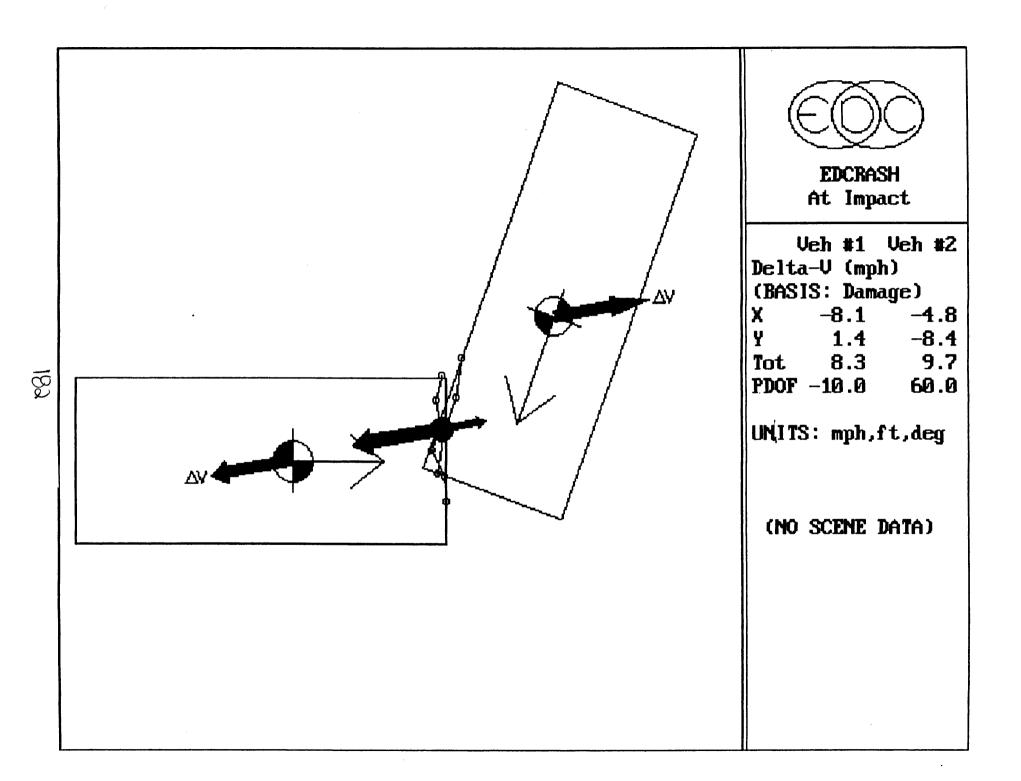
Crush Data (in): 60.0 56.6 -11.062.0 C1 2.6 0.0 CZ 4.9 3.8 **C3** 3.3 3.8 **C4** 7.3 7.6 **C5** 1.1 Ch 0.0

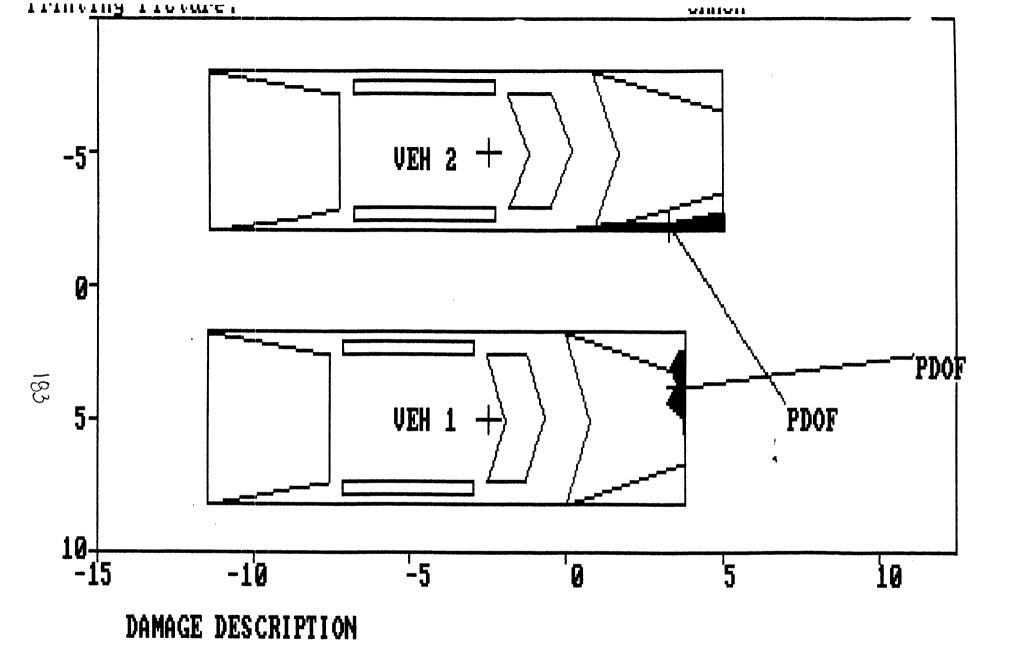
CDC/PDOF: 12FYEW1 -19.0 deg Max Impact Force: 59817 lb

 $\Delta V$ 

CDC/PDOF: 02RFEW2 Max Impact Force:

60.0 deg 25469 1b





#### SUMMARY OF CRASHPC RESULTS (USING SPINOUT)

#### DSI-94-AB-20

SPEED CHANGE		TOTAL(KPH)	LONG.(KPH)	LAT.(KPH)	ANG. (DEG)
(DAMAGE)	VEH #1	13.3	-13.1	2.3	-10.0
,	VEH #2	15.5	-7.8	-13.5	60.0

ENERGY DISSIPATED BY DAMAGE VEH#1: 20880.2 JOULES VEH#2: 12125.5 JOULES

SUMMARY OF DAMAGE DATA VEHICLE # 1	(* INDICATES DEFAULT VALUE) VEHICLE # 2
TYPECATEGORY 7	TYPECATEGORY 3
STIFFNESSCATEGORY 7	STIFFNESSCATEGORY 3
WEIGHT 1713.2 KGS	WEIGHT 1462.0 KGS
CDC12FYEW1	CDC02RFEW2
L 152.4 CM.	L0 CM. *
C1 6.6 CM.	C10 CM. *
C2 12.4 CM.	C20 CM. *
C3 8.4 CM.	C30 CM. *
C4 18.5 CM.	C40 CM. *
C5 2.8 CM.	C50 CM. *
C60 CM.	C60 CM. *
D27.9 CM.	D0 CM. *
RHO 1.00 *	RHO 1.00 *
ANG10.0 DEG.	ANG 60.0 DEG.
D'39.0 CM.	D' 176.0 CM.

#### DIMENSIONS AND INERTIAL PROPERTIES

λ1	=	123.2	CM.	A2	=	130.3	CM.	
B1	=	174.0	CM.	B2	=	141.0	CM.	
TR1	=	171.7	CM.			149.6		
I1	=	411965.	8 NEWT-SEC**2-CM					NEWT-SEC**2-CM
M1	=	17.198	NEWT-SEC**2/CM	<b>M</b> 2	=	14.675	NEW	F-SEC**2/CM
XF1	=	192.0	CM.	XF2	=	228.1	CM.	
XR1	=	-271.8	CM.	XR2	=	-270.3	CM.	
YS1	=	100.3	CM.	YS2	=	92.2	CM.	

#### SUMMARY OF CRASHPC RESULTS (USING SPINOUT)

#### DSI-94-AB-20

SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT.(MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	8.2	-8.1	1.4	-10.0
(======================================	VEH #2	9.7	-4.8	-8.4	60.0

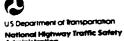
ENERGY DISSIPATED BY DAMAGE VEH#1: 15398.4 FT-LB. VEH#2: 8942.1 FT-LB.

SUMMARY OF DAMAGE DATA	(* INDICATES DEFAULT VALUE)
VEHICLE # 1	VEHICLE # 2
TYPECATEGORY 7	TYPECATEGORY 3
STIFFNESSCATEGORY 7	STIFFNESSCATEGORY 3
WEIGHT 3777.0 LBS.	WEIGHT 3223.0 LBS.
CDC12FYEW1	CDC02RFEW2
L 60.0 IN.	L0 IN. *
C1 2.6 IN.	C10 IN. *
C2 4.9 IN.	C20 IN. *
C3 3.3 IN.	C30 IN. *
C4 7.3 IN.	C40 IN. *
C5 1.1 IN.	C50 IN. *
C60 IN.	C60 IN. *
D11.0 IN.	D0 IN. *
RHO 1.00 *	RHO 1.00 *
ANG10.0 DEG.	ANG 60.0 DEG.
D'15.4 IN.	D' 69.3 IN.

#### DIMENSIONS AND INERTIAL PROPERTIES

λ1	=	48.5	IN.	A2	=	51.3	IN.
	=		IN.	B2	=	55.5	IN.
TR1	=	67.6	IN.	TR2			
<b>I</b> 1	=	36463	.9 LB-SEC**2-IN	12			355.6 LB-SEC**2-IN
M1	=	9.821	LB-SEC**2/IN	M2	=	8.380	LB-SEC**2/IN
XF1	=	75.6	IN.	XF2	=	89.8	IN.
XR1	=	-107.0	IN.	XR2	=	-106.4	IN.
YS1	=	39.5	IN.	YS2	=	36.3	IN.





#### CRASHPC PROGRAM SUMMARY

National Highway Traffic Safety Administration	C	RASHPU PROC	JAMINI SOMM		·	<del></del>
Identifying Title		- AB-20 Stratum	Accident Event	Date (month, d	ay, year) of Run	<del>}</del>
Sampling Unit			Sequence No.			
CRASHPC Vehicle		<b>.</b>	<i>(</i>	O CARAVANICS	14 /2	
Vehicle 1 —	1994	DODGE			- <del>                                     </del>	_
Vehicle 2	1980	CHEVROLET Make	MAL	i (うじ Model	NASS	-
	Year	Make			Veh. No.	
•		GENERAL I	NFORMATION			
	VEHICLE 1			VEHICLE 2		3
Size		<u>+1</u>	Size	ASSUMED	70	, 슬
Weight 3564 255 +	Z13 + 1 =================================	= 3777	Weight <u> </u>	1 + 134.P+ - P	= 522	<u> </u>
	ccupant(s) Cargo		Curb	Occupant(s) Cargo	Feu	> 2
CDC	<u>12</u>	<u> </u>	CDC	<u> </u>		<del>-</del>
PDOF		=1-4	PDOF		<u> </u>	- <del>¥</del>
Stiffness			Stiffness			
The second second			FORMATION	المراجع الأعال المهارة المحاليين		
Rest and Impact P	ositions [X]	No) <i>Go To Dem<b>ége</b></i>	Information 📆 📑	] Yes		
the factor septiment of the second se	VEHICLE 1	•	•	VEHICLE 2	•	
Rest Position			Rest Position	1		
, X			X			. •
Y			Y			
PSI			PSI	··		
Impact Position			Impact Posit X	lion		
X			Ŷ			
Y			PSI			
PSI			Slip Angle			
Slip Angle		VEUICI				
	toda o produktorali	VERICE	E MOTION			
Sustained Contac	t - [-]] No	[ ] Yes				
	VEHICLE 1			VEHICLE 2		
Skidding		[ ]No [ ]Yes	Skidding	[	[ ] No 🚈 [ ]	] Yes
	Before Rest		Skidding S	top Before Rest [	] No [	] Yes
End-of-Skiddir			End-of-Skid	dding Position		
X			X	-		
Y			Υ	-		
PSI			PSI	-		
Curved Path		[ ] No [ ] Yes	Curved Path	ſ	] No [	] Yes
Point on Path			Point on Pa			
×	Y		×	Y -		
Rotation Direction	on [ ]None	[ ]cw [ ]ccw	Rotation Dire		[ ]CW [ ]	CCAA
Rotation > 3	860° [ ] No	[ ] Yes	Rotation	> 360° [ ] No	[ ] Yes	

	FORMATION	Trajectory Data [/] N	lo [ ] Yes	
efficient of Friction	·	H No, Go To Damage In	formation	
lling Resistance Option	·	Vehicle 1 Steer Angles		
W. D	intanco	LF		o
Vehicle 1 Rolling Res		LF		°
LR ·				
LIV ·		Vehicle 2 Steer Angles		o
Vehicle 2 Rolling Res	sistance	LF		o
LF ·	RF ·	LR		
LR ·	RR ·	Terrain Boundary L	] No. [ ] Ye	19
		First Point		
		X m	Υ	· m
		Second Point		
		X m	Υ	· m
		Secondary Coefficient	of Friction	•
	DAMAGE II	VEORMATION	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
March 1988 And American	DAIVIAGE, II	VI CITIVIA III	EHICLE 2	NaFAULT
VE	HICLE 1	V	ENICLE 2	VALUES
Damage Length	L <u> </u>	Damage Length	L _	DEFAULT VALUES 375215 ON
Damane Lenuu	<del></del>		6	CDC cm
Damage 15. C				
	c, 47 cm	Crush Depths		
	C <sub>2</sub> 0 1 2 cm	Crush Depths	C <sub>2</sub>	cm
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Crush Depths	C <sub>2</sub> _	cm
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Crush Depths	C <sub>2</sub> _	cm cm
	$C_2$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	Crush Depths	C <sub>2</sub> _ C <sub>3</sub> _ C <sub>4</sub> _	cm
Crush Denths	$C_2$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	Crush Depths  Damage Offset	C <sub>2</sub> _ C <sub>3</sub> _ C <sub>4</sub> _ C <sub>5</sub>	cm cm
Crush Depths	C <sub>2</sub>	Damage Offset	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>5</sub> C <sub>6</sub>	cmcmcmcmcm
Crush Depths	C <sub>2</sub>	Damage Offset	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>5</sub> C <sub>6</sub>	cmcmcmcmcm
Crush Depths  Damage Offset	C <sub>2</sub>	Damage Offset CLE NOT IN TRANSPORT: FIL	$C_2$ $C_3$ $C_4$ $C_5$ $C_6$ $D \stackrel{+}{=}$	cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IN	C <sub>2</sub>	Damage Offset CLE NOT IN TRANSPORT: FIL The Weight, CDC, Sce	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>6</sub> C <sub>6</sub> D +	cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IN  Model Year:  Make:	C <sub>2</sub>	Damage Offset  CLE NOT IN TRANSPORT: FIL  The Weight, CDC, Sce  for this vehicle should	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>6</sub> C <sub>6</sub> D +	cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IN  Model Year:  Make:	C <sub>2</sub>	Damage Offset  CLE NOT IN TRANSPORT: FIL  The Weight, CDC, Sce  for this vehicle should	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>6</sub> C <sub>6</sub> D +	cm cm cm cm cm
Crush Depths  Damage Offset  IF THIS COMMON IN  Model Year:  Make:  Model:  VIN:	C <sub>2</sub>	Damage Offset  CLE NOT IN TRANSPORT: FIL  The Weight, CDC, Sce for this vehicle should	C <sub>2</sub> C <sub>3</sub> C <sub>4</sub> C <sub>6</sub> C <sub>6</sub> D ±  L', IN THE INFO	cm cm cm cm cm cm cm cm cm cm cm cm cm c

#### **ACCIDENT SUMMARY**

#### AIRBAG VEHICLE INSPECTION

1.	Accident Date: FALL / WEEK	CDAY	10.	Date Vehicle Inspected:	
2.	Police Investigated (1) Yes (2) No (3) Unknown  Agency: City: City: Curny County:		11.	Reason Vehicle Not Inspected (0) Not Required (1) Inspection Completed (2) Cannot be Located (3) Repaired or Destroyed (5) Refusal or Impounded (7) Other:	
3.	General Locality (1) Freeway, Limited Access (2) Urban (City) (3) Urban-Rural (mixed) (4) Rural, Fields	a	12.	Impact Data Obtained (0) No Data Obtained (1) CDC Only (2) Crush Profile Only (3) Trajectory Data Only	4
4.	Configuration (First Harm) (0) Struck Object or Ped (1) Rear-End (2) Head-On (3) Rear-to-Rear	4		<ul> <li>(3) Trajectory Data Only</li> <li>(4) CDC and Crush Profile</li> <li>(5) CDC and Trajectory</li> <li>(6) Crush and Trajectory</li> <li>(7) CDC, Crush, and Trajectory</li> </ul>	
	<ul> <li>(4) Angle</li> <li>(5) Sideswipe-Same Direction</li> <li>(6) Sideswipe-Opposite Dir.</li> <li>(7) Noncollision</li> <li>(8) Nonimpact Deployment</li> <li>(9) Unknown</li> </ul>		13.	Basis of Delta-V (0) Not Computed (Unknown why) (1) CRASH - Damage Only (2) CRASH - Damage + Traj (3) OLDMISS (4) POLES	
5.	Fire Involved (0) None (1) Airbag Vehicle (2) Other Vehicle (3) Both Vehicles	Ø	VEHI	(5) Unknown Basis (6) One Vehicle Beyond Scope (7) Collision Beyond Scope (8) Insufficient Data	
	(9) Unknown				
6.	Vehicles Involved	2	14.	Prior Impacts for AB Vehicle? (1) Yes (2) No (9) Unknown	2
7.	Persons Involved	4	15.	(9) Unknown  Has Any Prior Maintenance or	[3]
8.	Injured Persons	. 3		Service Been Performed on System (1) Yes (2) No	<u></u>
9.	Maximum AIS in Accident	3		(9) Unknown  Describe:	

AIRI	BAG VEHICLE Fleet: None VIN: 184GH4435RX Mileage: 8,839Km (5,493㎡		21.	(02) Immersion (03) Gas Inhalation	/3
SYST	TEM READINESS LAMP			(04) Fell from vehicle (05) Injured in vehicle	
16.	Pre-Impact Lamp Condition (1) Functioning/Proved Out (2) Inoperative (9) Unknown	9	~ · · ♥	<ul><li>(06) Other noncollision (specify):</li><li>(07) Overturn</li><li>(08) Jackknife</li><li>COLLISION WITH:</li><li>(09) Pedestrian</li></ul>	
17.	Driver's Report of Pre-Impact Flashing (00) No Flashing Reported (01) Continuous Flashing (02)  Number of Flashes:  (11) (12) Constant Light (19) Flashing, Unknown Number (88) Not Applicable, System Removed (99) Unknown	9		(10) Pedalcyclist (11) Railway train (12) Animal (13) Motor vehicle in transport (same roadway) (14) Motor vehicle in transport (other roadway) (15) Parked motor vehicle (16) Other type nonmotorist (specify): (17) Thrown or falling object (18) Boulder COLLISION WITH FIXED OBJECT	
18.	Period of Pre-Impact Flashing (0) No Flashing (1) Same Day as Impact (2) Prior Day (3) Prior Two Days (4) Prior Week (5) Prior Month (6) Over One Month (9) Unknown	9		(20) Building (21) Impact attenuator/crash cushion (22) Bridge pier or abutment (23) Bridge parapet end (24) Bridge rail (25) Guardrail (26) Concrete traffic barrier (27) Median barrier (28) Other longitudinal barrier (specify): (29) Highway/traffic sign post	
19.	Post-Impact Lamp Condition (1) Functioning/Proved Out (2) Inoperative (9) Unknown	9		<ul> <li>(30) Overhead sign support</li> <li>(31) Luminaire/light support</li> <li>(32) Utility pole</li> <li>(33) Other post, pole, or support</li> <li>(34) Culvert</li> </ul>	
20.	Post-Impact Flashing (00) No Flashing Reported (01) Continuous Flashing (02)  Number of Flashes: (11) (12) Constant Light (19) Flashing, Unknown Number (88) Not Applicable, System Removed (99) Unknown	9		(35) Curb (36) Ditch (37) Embankment-earth (38) Embankment-rock, stone, or concrete (39) Fence (40) Wall (41) Fire hydrant (42) Shrubbery (43) Tree (44) Other fixed object (specify): (45) Pavement surface irregularity (99) Unknown	

AIR	BAG VEHICLE IMPACT SUMM	ARY	FRO	ONT BUMPER E.A.D. STATUS	•
22.	Vehicle Role (0) Noncollision (1) Striking unit	1	30.	Left	5
	(2) Struck unit (3) Both striking and struck (9) Unknown		31.	Right  (1) Normal	5
23.	Manner of Leaving Scene (1) Driven (2) Towed-due to damage (3) Towed-not for damage (4) Towed-details unknown (5) Abandoned (9) Unknown	্ব	FIRS	(2) Extended (3) Partial Compression (4) Complete Compression (5) Not Applicable (9) Unknown	T:
24.	Number of Impact Events (8) 8 or more (9) Unknown		32.	Configuration (0) Struck Object or Ped (1) Rear-End (2) Head-On	4
25.	Rollover (0) No rollover (1) First event (2) Subsequent event (3) Yes, Unknown event (9) Unknown	ø		<ul> <li>(3) Rear-to-Rear</li> <li>(4) Angle</li> <li>(5) Sideswipe-Same Direction</li> <li>(6) Sideswipe-Opposite Dir.</li> <li>(7) Noncollision</li> <li>(8) Nonimpact Deployment</li> <li>(9) Unknown</li> </ul>	
26.	Override/Underride (0) No override/underride (1) Override - 1st CDC (2) Override - Other CDC	3	33. 34.	CDC: 12 FYEW 1  Object Contacted: 1980 CHE	EVROLET MALIBUL
	(3) Underride - 1st CDC (4) Underride - Other CDC		PRIM	IARY/DEPLOYMENT IMPAC	Г:
	(9) Unknown		35.	Event Number	
AIRB. CODI	AG VEHICLE DAMAGE ES: (1) Yes, damaged (2) No damage (9) Unknown		36.	Total Delta-V	13 KAH
27.	Left Front Fender Damage	1	37.	Longitudinal Delta-V	- 13 KPH
28.	Right Front Fender Damage	. 2	38.	Configuration See 32 above for codes	4
29.	Center Top of Grille Damage	П	39.	CDC: IAFYEW I	
		ليا	40.	Object Contacted: 1980 CH	EVROLET MALIBU

#### **AIRBAG SYSTEM DAMAGE**

CODES:

- (1) Yes, Damaged
- (2) No, Intact
- (3) Not Applicable
- (9) Unknown

41. Airbag Module

odule

42. Left Front Sensor

43. Center Front Sensor

44. Right Front Sensor

45. Rear Cowl Sensor

46. Diagnostic Module

47. Wiring

48. Knee Diverter

49. Indication of disconnected or loose electrical connectors

50. Condition of Deployed Bag

- (1) Bag intact
- (2) Split or torn
- (3) Cut by object in impact
- (4) Cut after accident
- (5) Other
- (8) NA (not deployed)
- (9) Unknown

**DESCRIBE SYSTEM AND BAG DAMAGE:** 

NONE

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

**FRONT** 

9

9

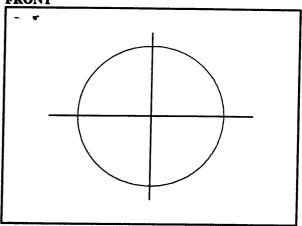
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3

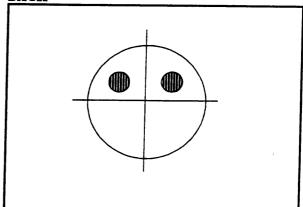
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a







#### OCCUPANTS OF AIRBAG CAR

51.	Number of Occupants in Vehicle	3	MAXIMUM AIS BY BODY REGION				
			REGION MAX AIS CONTA	CT			
<b>52</b> .	Number of Injured Persons	3	Head/Neck/Face				
			Chest <u>1</u> <u>45</u>				
53.	Maximum AIS in Airbag Vehicle	4	Abdomen				
	(0) No Injury (1-6) AIS Severity		Legs/Hips				
	<ul><li>(7) Injured, unknown severity</li><li>(9) Unknown</li></ul>		Other (Arms)				
DRIV			Driver Maximum 1 45				
	Age: 37		EJECTION				
	Sex: FEMALE		Extent: NOME				
54. <b>Nu</b> m	Number of Driver Injuries		<b>5</b> 4				
			Portal:				
55.	Source of Best Injury Data (0) Not injured	7					
	(1) Autopsy (2) Hospital Medical Records		OTHER VEHICLE:				
	(3) Emergency Room only (4) Private physician, clinic		Maximum AIS	YNK			
	(5) Lay Coroner Report (6) EMS Personnel (7) Interviewee		Prime/Deploy Impact w AB Vehicle Event Number	ø1			
	(8) Police		CDC: PARFEWZ				
	(9) Unknown	•	Total Delta V	16 KPH			
			Make: CHEVROLET				
		•	Model Year: 1980				
			Model: 1772184				
			Body Type: 2-DaaR				

AIRBAG SUPPLEMENT
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б

**NOTES:** 

DRIVER BELT USAGE: (1) Used (2) Not Used (9) Unknown

<u>a</u>

Evidence:

DRIVER POSTURE: Any comments Recorded (1) Yes, (2) No

1

Describe driver's posture and position on seat including specific comments on head, torso, buttocks, legs, and feet. Also note hand and arm position. Did driver brace before crash? Describe: NORMAL UPRIGHT POSITION

DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No

2

Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelery play any role?:

DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No

 $\perp \!\!\! \perp$ 

Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke noise, etc? Did the driver comment on the airbag as a restraint system? Describe: COMMENTS ON PERFORMANCE OF AIRBAG?: The driver remembers a smell. She does not remember a noise. She saw the airbag coming at her when it deployed.

The driver of Vehicle 1 feels that the airbag is what struck the right front occupant causing her to override the airbag and strike the windshield. She was further told by the police that if the right front occupant had been belted, she would have been struck very hard by the airbag and seriously injured.

The driver of Vehicle 1 feels that airbags are unsafe and can cause serious injuries. She wants warning labels attached to airbag-equipped vehicles warning occupants of such dangers. PASSENGER-AIRBAG CONTACT: (1) Yes, (2) No, (9) Unknown

2

Describe:

#### R/F OCCUPANT

#### AIRBAG SYSTEM DAMAGE

CODES: (1) Yes, Damaged

- (2) No, Intact
- (3) Not Applicable
- (9) Unknown
- 56. Airbag Module
- 57. Condition of Deployed Bag
  - (1) Bag intact
  - (2) Split or torn
  - (3) Cut by object in impact
  - (4) Cut after accident
  - (5) Other
  - (8) NA (not deployed)
  - (9) Unknown

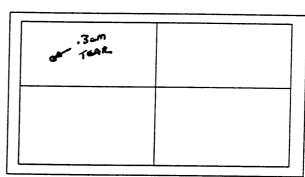
#### DESCRIBE SYSTEM AND BAG DAMAGE:

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

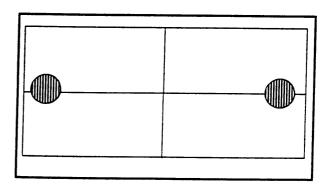
#### **FRONT**

2

3



#### **BACK**



#### R/F Occupant

Age:

Sex: FEMALE

58. Number of Injuries

Source of Best Injury Data **59**.

- (0) Not injured
  - (1) Autopsy
  - (2) Hospital Medical Records
  - (3) Emergency Room only
  - (4) Private physician, clinic (5) Lay Coroner Report

  - (6) EMS Personnel
  - (7) Interviewee
  - (8) Police
  - (9) Unknown

#### MAXIMUM AIS BY BODY REGION

REGION	MAX AIS	CONTACT
Head/Neck/Face	4	<u>5</u> \$
Chest		
Abdomen		<del></del>
Legs/Hips		
Other (Arms)		
Occupant Maximum	4	<u>5</u> \$

**EJECTION** 

NONE Extent:

Portal:

#### R/F OCCUPANT:

R/F OCCUPANT BELT USAGE: (1) Used (2) Not Used (9) Unknown

Q

Evidence:

R/F OCCUPANT POSTURE: Any comments Recorded (1) Yes, (2) No

1

Describe occupant's posture and position on seat including specific comments on head, torso, buttocks, legs, and feet. Also note hand and arm position. Did occupant brace before crash? Describe: SHE WAS TRYING TO AIT SEAT BELT AT THE TIME OF THE COLLISIAN.

R/F OCCUPANT FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No

2

Was occupant wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelery play any role?:

R/F OCCUPANT COMMENTS: Comments Recorded (1) Yes, (2) No

2

Was the occupant aware that the vehicle was equipped with a supplemental restraint system? Did occupant offer any comments on smoke, noise, etc.? Did the occupant comment on the airbag as a restraint system? Describe:

DRIVER-AIRBAG CONTACT: (1) Yes, (2) No, (9) Unknown

2

Describe:

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	VESICLE VEHICLE VEHICLE	YEAR 194 IDENTIF	EARS VALID NO WAR	KE Podge	MODEL Cara	van	1 <i>2 1</i> /	DIS	07   1 POSITION OF DE # /	EHICLE COLO	1	Town	714	DESC. O	F CARGO	NO. OF	CAL VEHI	CLE (Rec	12,000 be ITRASTA IR OF TR	TE[] AVEL	2
	VEHICLE	YEAR 194 IDENTIF	EARS VALID  NO MA  P 4 D  ICATION NUMBER	KE Odge	MODEL Cara		<i>از ک</i> ا	DIS	07 / POSITION OF	EHICLE COLO	1	I X	714	DESC. O		NO. OF	CAL VEHI	CLE (Reg	IZ,000 to ITRASTA IR OF TR	AVEL	<u>3</u>
	VEHICLE VEHICL	E YEAR 194 E IDENTIF	EARS VALID  NO MA  P 4 D  ICATION NUMBER	KE OSO E PLATE INFO	MODEL Cara	van	<i>از ک</i> ا	DIS COO	07   1 POSITION OF DE # /	EHICLE COLO TIPP Y FVEHICLE	7 PAF	Town	<b>D</b>	DESC. O		NO. OF	CAL VEHI	CLE (Reg	IZ,000 to ITRASTA IR OF TR	AVEL	\\ \frac{1}{x} \\ \fr
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- VEHICLE 1 - OCCUPANT 2

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THE UNDERSIGNED SIGNS THIS DOCUMENT EITHER AS THE PATIENT OR AS THE AGENT OR REPRESENTATIVE OF THE PATIENT AUTHORIZED TO EXECUTE THIS DOCUMENT AND TO ACCEPT AND AGREE TO ITS TERMS ON BEHALF OF THE PATIENT. I HAVE READ THE FOREGOING AND HAVE HAD THE OPPORTUNITY TO ASK ANY QUESTIONS I MAY HAVE ABOUT THE FOREGOING. SUCH QUESTIONS HAVE BEEN ANSWERED TO MY SATISFACTION, AND I UNDERSTAND WHAT I AM AGREEING TO BY SIGNING BELOW. I UNDERSTAND THAT I AM ENTITLED TO REQUEST AND OBTAIN A COPY OF THIS DOCUMENT.

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#### TIME:

CHIEF COMPLAINT: Motor vehicle accident with head injury.

HISTORY: This 4-year-old female was the unrestrained front seat passenger of a vehicle which was involved in a collision. The airbag was deployed, but the patient apparently was not stopped by the airbag. When the paramedics arrived, they found the child on the lawn of a nearby fast food restaurant receiving CPR. They noted that as the air was blown into the mouth, that blood would gurgle out of the ears. They detected no pulse or respiratory effort. Because there was some cardiac electrical activity, they continued CPR and brought the patient immediately to the hospital. In the car with her was the mother and older sister. The mother has a mild chest injury. The other child is not injured.

PAST MEDICAL HISTORY: Unknown.

MEDICATIONS: Unknown.
ALLERGIES: Unknown.

#### PHYSICAL EXAMINATION:

GENERAL: The child has not respiratory effort or pulse. Blood

is coming freely from both ears and from the mouth and

nose.

HEAD: The patient has lacerations scattered over the scalp

with the impression of depressed and open skull

fracture. There is blood coming from both ear canals. The face has smooth superficial abrasion over the exposed forehead, nose, cheeks, and chin, suggesting very rapid contact with a smooth surface, such as abrasion from the deployment of the airbag. The right pupil is dilated and nonreactive. The left pupil is

midposition and nonreactive. Nose has some lacerations immediately on the nostrils. There are two teeth

avulsed in the front, with some oral lacerations and a

laceration just below the lower lip.

NECK: There is a band or ecchymosis and marking across the

upper neck, suggesting rapid contact with a linear object. There is no obvious step-off deformity or

obvious fracture of the neck to my exam.

CHEST: There are no ecchymoses or abrasions. The ribs are

stable.

LUNGS: Symmetrical breath sounds once intubation has been

accomplished.

HEART: No cardiac activity is heard.

PATIENT:

MEDICAL RECORD #:

PHYSICIAN:

ADMISSION DATE:

DATE OF SERVICE:

DISCHARGE DATE:

ABDOMEN: EXTREMITIES: Not distended. No evidence of injury is noted. No evidence of injury is seen.

#### EMERGENCY ROOM COURSE:

We were contacted as the paramedics were en route. I saw the patient in the ambulance and brought her into the emergency department, where intubation was done, and the patient was ventilated and CPR continued while assessment was made.

My impression was that the injuries were likely fatal, but while the cardiac activity continued we would attempt resuscitation. While I was prepping the patient for a cutdown on the leg for IV access, the electrical activity stopped, and the patient's rhythm was asystole. At this point the patient was declared dead.

Social Services was called to assist the family. The pediatrician's office was notified.

DIAGNOSIS: Automobile accident, massive had injuries, dead on arrival.

"I AUTHORIZE MY NAME TO BE AUTOMATICALLY AFFIXED TO THIS REPORT AS SIGNIFYING THAT I DICTATED THIS REPORT."

PATIENT:
MEDICAL RECORD #:
PHYSICIAN:
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#### DYNAMIC SCIENCE INCORPORATED

RE:

DATE OF ACCIDENT:

I have received your communication concerning investigation of this accident. I am providing the following information with the understanding that it is not part of any civil litigation or product liability, but is to be used for the advancement of research on airbags.

The abrasions which were present on 's face were extremely smooth and covered most of the face from chin to upper forehead. The abrasions actually followed the curved surfaces in a manner which I have never seen caused by collision with a hard object, such as dashboard, floor, or windshield. The combination of distribution of abrasions, with their slightly purplish color, led me to believe that the only way this injury could have occurred is by rapid velocity impact of a deploying on 's face. lacerations on the nostrils, lip, and oral lacerations appeared to be typical bursting-type lacerations caused by blunt impact. No sharp abrasions or lacerations were seen. The mark across the neck was slightly above the level of the Adam's apple. approximately 5.0 cm in length, angling very slightly upward at each edge, as it extended across the neck horizontally. ecchymosis seemed extremely superficial and was very similar in appearance to the color of the facial injury, but without the overlying abrasion of skin. This band of discoloration was about 0.5 cm in width. Although the impression of the paramedics was that the patient had an unstable C-spine fracture, I did not appreciate this as I moved . 's head. There was no swelling, palpable deformity, or crepitance on the neck at the time of my examination. Pressing on the child's forehead caused a sensation of crepitance with some motion in the area of the temple. In that location was a laceration about 6.0 cm in length running mostly vertically, extending slightly posterior as it went downward. A

couple of other lacerations were present over the frontal skull, but I do not recall their orientation or size clearly at this time. My impression on palpation of the skull was that there were some irregularity extending around in a coronal orientation in the area of the temple extending across the vertex and over towards the other side of the skull, but I did not open the laceration to explore further. I believe the patient also had a laceration posterior to the ear, just above the area of the mastoid process on the left, but no lacerations were found posterior to that area. There was no evidence found of an impact on the rear of the skull.

I am sorry I cannot recall more of the specific injuries. Please contact me if you need further information.

Sincerely,

#### Skull Injuries

